



**ENGINEERED  
PERFORMANCE STANDARDS  
for  
Real Property Maintenance Activities**

# **Paint Handbook**

**ARMY TB 420-18  
NAVFAC P-710.0  
AIR FORCE AFM 85-49**

**OCT 1990**

**DEPARTMENTS OF THE ARMY,  
THE NAVY AND THE AIR FORCE**



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## FOREWORD

This handbook provides guidance to Planners-Estimators in projecting labor hour requirements for workers to perform typical facilities-maintenance tasks. Proper use of the data in this handbook will help provide more realistic, consistent, and timely labor hour estimates. These estimates provide bench marks that enable managers to evaluate and control actions based on improvement. More effective response and support at minimum cost can, in turn, be realized.

Comments and suggestions regarding the handbook are invited and should be sent to:

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To facilitate forwarding of comments, addressed feedback forms are included in the back of this handbook.

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## SYNOPSIS OF CHANGES

The following is a summary of new and revised standards found in this edition of ARMY TB 420-18, NAVFAC P-710.0, AIR FORCE AFM 85-49.

NEW

BRUSH PAINT OBJECTS	PT-132, PT-133, PT-134, PT-135, PT-136
GLAZING INSTALL GLASS PANE IN NEW WOOD SASH	PT-241
ROLLER PAINTING SURFACE	PT-330, PT-340
SURFACE PREPARATION ABRASIVE CLEANING USING HANDTOOLS	
FLAT, SLIGHTLY CURVED OR UNOBSTRUCTED SURFACE	PT-604, PT-631, PT-632, PT-633, PT-634
IRREGULAR, ANGULAR OR DIFFICULT TO REACH SURFACE	PT-608, PT-635, PT-636, PT-637, PT-638
OBJECTS	PT-621, PT-623, PT-624, PT-625, PT-626, PT-627, PT-628, PT-629
REPAIR SURFACE	PT-678, PT-680, PT-681, PT-684, PT-685

REVISED

BRUSH PAINTING	PT-101, PT-102, PT-103, PT-104, PT-105, PT-106, PT-107, PT-108, PT-121, PT-122, PT-123, PT-124, PT-125, PT-126, PT-127, PT-128, PT-129, PT-131, PT-151, PT-152, PT-153, PT-154, PT-155, PT-163, PT-171, PT-172, PT-173
GLAZING	PT-221, PT-223, PT-224, PT-225
ROLLER PAINTING	PT-301, PT-320, PT-350
SPRAY PAINTING	PT-411, PT-412, PT-415, PT-417, PT-421, PT-422, PT-425, PT-427
SURFACE PREPARATION	PT-622

## SUPPLEMENTAL TASKS

MAY 88

Additional Material Handling (AMH)	One Person per Armload with equipment or by hand (up to 33 1/3 lbs) per 200' R/T		PWA-5	.04
	Two Persons per Object load per 200' R/T (Size/Wt/Condition too hard for one person)		PWA-5	.11
Additional Travel Time (ATT)	Additional Work Location (AWL) (per person)		PWA-1	.07
	Heavy Equipment Travel (Hrs per Person per R/T) (HET)	Zone 1	PWA-2	0
		Zone 2	PWA-2	0
		Zone 3	PWA-2	0
		Zone 4	PWA-2	.11
		Zone 5	PWA-2	.19
		Zone 6	PWA-2	.27
		Zone 7	PWA-2	.35
		Zone 8	PWA-2	.43
		Zone 9	PWA-2	.55
		Zone 10	PWA-2	.71
		Zone 11	PWA-2	.87
		Zone 12	PWA-2	1.03
		Zone 13	PWA-2	1.19
		Zone 14	PWA-2	1.35
		Zone 15	PWA-2	1.51
Ladder Time (Position & Climb)	To Reach Object (per move)	Up to 8'	PWP-9	.0393
		From 9' to 11'	PWP-9	.0416
		From 12' to 15'	PWP-9	.0727
		From 16' to 23'	PWP-9	.1591
		Over 23'	PWP-9	.1821
	Continuous Lateral Movement (per LIN FT)	Up to 8'	PWP-9	.0037
		From 9' to 11'	PWP-9	.0044
		From 12' to 15'	PWP-9	.0062
		From 16' to 23'	PWP-9	.0164
		Over 23'	PWP-9	.0230
	Wall Painting/Covering (per SQ FT)	Walls up to 15'	PWP-9	.0004
		Walls over 15'	PWP-9	.0021
	Ceiling Painting/Covering (per SQ FT)	Ceilings up to 11'	PWP-9	.0027
		Ceilings over 11'	PWP-9	.0038
Scaffolding	Pipe or Portable Type	Assemble OR Disassemble (per Section up to 5 sections high)	P-701.1	.3
		AMH: Pipe-type Components (per Section per 200' R/T)	PWA-5	.3
	Power-Type	Raise AND Lower (per USE)	BT-175	.63
Paint	Additional Job Prep	Traffic Striping (per day)	PWP-27	1.1



## SUMMARY OF GENERAL DATA

CRAFTS		JOB PREP.	PERCENT CRAFT ALLOW.	
			ONE PERSON	MULTI. PERSON
BOILER WORK – PERFORMED BY ANY SHOP		.4	23	33
CARPENTRY	GENERAL	.3	16	23
	ROOFING	.6	18	25
COOLING/VENTILATING/REFRIGERATION		.3	19	21
ELECTRICAL & ELECTRONIC		.3	19	21
HAZARDOUS WORK: ADDED TO PREP. TIME/CRAFT		.2	–	–
HEATING		.3	18	20
JANITORIAL		.2	11	13
MACHINE SHOP		.3	23	24
MACHINE REPAIR		.4	28	36
MASONRY	GENERAL	.4	15	23
	W/ PURCHASED CONCRETE	.4	23	31
MOVING & RIGGING		.3	28	40
PAINT	GENERAL	.2	14	15
	SPRAY	.2	16	17
PEST CONTROL		.2	14	17
PIPEFITTING & PLUMBING		.3	18	20
ROADS & GROUNDS	GENERAL	.3	18	20
	LABORERS	.3	21	23
SHEETMETAL		.3	20	26
STRUCTURAL IRON & WELDING	SHOP	.3	20	24
	FIELD	.6	20	24
TRACKAGE		.4	–	22
WHARFBUILDING		.5	24	32

WORK REQUEST # \_\_\_\_\_  
SURVEY BY \_\_\_\_\_  
SURVEY DATE \_\_\_\_\_

[illegible]

### SITE NOTES & SKETCH:

[illegible]

## INTRODUCTION

The major changes appearing in this revision are the expansion of existing standards into more useful segments of work. The largest areas of concentrated effort are reflected in Brush Painting and Surface Preparation. Other additions or changes occur in the Glazing, Roller Painting and Spray Painting areas. "Two man job" and "More than two men" entries have been removed from the Supplemental Task sheet and are now included in all painting tasks except Traffic Striping. The Ladder listing has been removed from the Paint Handbook and placed on the Supplemental Task sheet to make it more readily accessible to all crafts.

**Task Listing.** One page is used for each major classification of work except for Surface Preparation, which has two pages. The page titles are identical to the titles listed in the table of contents. The task descriptions are brief, yet give a quick overview of what tasks are available. If the task does not appear on this page, it does not exist. If there was a question as to where a task should be placed, it will appear in all classifications where it could possibly be listed.

**Explanation and Scope of Standards.** Each task listing page has a facing page of explanations. This page gives a detailed description of the task limitations and applications. Also on this page is a short paragraph on materials and an example of how the task would appear on a Job Phase Calculation Sheet (JPCS).

**Task Time Details.** The Task Time Details no longer include times for each detail line. These reformatted details are listed numerically in the back of this handbook. They are provided for your use in researching the contents of the task.

**General Information.** All task times are shown in labor hours. These labor hours do not include time for staging required materials at the job site. Activities such as material handling time, travel time and job preparation time are covered in the Planner-Estimator's Deskguide. Engineered Performance Standards (EPS) should be applied by personnel who have attended an EPS training course. New users of EPS should attend a formal initial EPS training course as soon as possible. In the interim, new users should be assisted and their planning and estimating work reviewed by personnel formally trained and experienced in using EPS.

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## CRAFT TIME ADJUSTMENT APPLICATION PROCEDURE

Craft Time Adjustment (CTA) can be used to modify EPS task times in this book. Use CTA only when work content comparison shows the planned job to require more or less work than the listed task.

a. The CTA Chart shows the amount that, the calculated EPS craft time can be adjusted up or down (+/-) after occurrences have been multiplied by the Task-Time-Standard. The CTA HOURS are based on the differences between EPS Group Times (see DESKGUIDE Table 2.1).

CRAFT TIME ADJUSTMENT (CTA) CHART					
JPCS Column #9c			JPCS Column #9c		
EPS	CRAFT TIME	CTA HOURS	EPS	CRAFT TIME	CTA HOURS
UP TO, BUT			UP TO, BUT		
FROM	NOT INCLUDING	(+/-)	FROM	NOT INCLUDING	(+/-)
0.0	0.2	0.1	5.2	9.0	2.0
0.2	0.4	0.3	9.0	11.0	2.5
0.4	0.8	0.5	11.0	14.0	3.5
0.8	1.4	0.7	14.0	22.0	4.0
1.4	2.2	1.1	22.0	26.0	5.0
2.2	3.6	1.5	26.0	32.0	7.0
3.6	5.2	1.6	32.0	40.0	9.0
			40.0	UP	10.0

### b. CTA Application Steps

- (1) Select the proper EPS task by reading and understanding the EPS task descriptions and the Task-Time-Standard details in the back of the hard copy EPS Handbook.
- (2) Use the normal procedure of writing the selected EPS task reference, description, unit hours, occurrence and calculated EPS CRAFT TIME. (Write 'WCC' below the EPS reference (Col #7) if Work Content Comparison is used.)
- (3) Decide if CTA is needed, based on P-E craft knowledge. If so, look up the EPS CRAFT TIME range and determine the CTA HOURS from the CTA Chart. Note: Use only the plus or minus value indicated under CTA hours shown. Do not select from a range.

On a separate JPCS line, just below the related EPS task:

- (4) Write "CTA" in the Reference column (#7).
- (5) Write a short explanation for the CTA in the Description column (#8). Compare the work content to the EPS task.
- (6) leave the Unit Hours column (#9a) blank.
- (7) Show a "+" or "-" sign in the Occurrence column (#9b). (When using a "-", remember to subtract while totaling.)
- (8) Write the CTA time in the Craft Time column (#9c). (Only use one CTA occurrence per EPS task.)

For conditions needing adjustment time exceeding CTA hours:

- (9) Write a non-EPS estimate or select another EPS task.

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## I. TASK TIME SUMMARY





10 CHAPTER	BRUSH PAINTING	REVISION	3 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT
	<u>SURFACE</u>		
PT-101	• Fiber block or acoustical ceiling	.0078	SQ FT
PT-102	• Clapboard	.0077	SQ FT
PT-103	• Concrete, smooth	.0061	SQ FT
PT-104	• Metal, corrugated/perforated	.0067	SQ FT
PT-105	• Metal, expanded	.0135	SQ FT
PT-106	• Metal, smooth (includes beams)	.0064	SQ FT
PT-107	• Terra cotta block	.0067	SQ FT
PT-108	• Wood, plywood or plaster	.0049	SQ FT
PT-131	• Wood, plywood or plaster up to 6" wide	.0036	LIN FT
	<u>OBJECTS</u>		
PT-136	• Door, wood or metal (smooth or paneled)	.1750	SIDE
PT-132	• Door jamb/casing or doorway	.2821	SIDE
PT-133	• Window, one pane over one pane	.6565	SIDE
PT-134	• Window, two panes over two panes	.7779	SIDE
PT-135	• Window, six panes over six panes	.9438	SIDE
PT-121	• Door, panel (wood or metal)	.0049	SQ FT
PT-122	• Door, edge (wood or metal)	.0041	LIN FT
PT-123	• Door jamb/casing or doorway	.0055	LIN FT
PT-124	• Grille, metal	.0135	SQ FT
PT-125	• Gutter, 4" round	.0196	LIN FT
PT-126	• Pipe, .5" to 1.5" dia.	.0060	LIN FT
PT-127	• Pipe, over 1.5" to 4" dia.	.0109	LIN FT
PT-128	• Pipe or column, over 4" to 8" dia.	.0202	LIN FT
PT-129	• Rafter, exposed, wood (also includes fascia, eave section and eave block)	.0498	LIN FT
	<u>COATINGS/COVERINGS</u>		
PT-151	• Aluminum paint - waterproof tar	.0041	SQ FT
PT-152	• Enamel - metal surface	.0073	SQ FT
PT-153	• Red lead - metal surface	.0090	SQ FT
PT-154	• Shellac - plaster or wood surface	.0049	SQ FT
PT-155	• Zinc chromate - metal surface	.0118	SQ FT
	<u>TRIM/CUT IN</u>		
PT-163	• All narrow surfaces (up to 3" wide)	.0059	LIN FT
	<u>SAFETY STRIPE</u>		
PT-177	• Metal surface, corrugated	.2151	SQ FT
PT-172	• Metal surface, smooth	.0426	SQ FT
PT-173	• Wood panel	.0701	SQ FT

## EXPLANATION AND SCOPE OF STANDARDS

These standards apply to installing glass in doors or windows that are within reach when standing. Task time standards for surface preparation and ladder use must be added as required.

The removal and installation of framed window screens has been developed as a separate standard. This standard is added when it is necessary to remove a screen to gain access to a pane that needs work.

Hand tools, glass, spacer shims, glazer points, glazing compound, putty, caulking compound and sealants.

## 6. JOB PHASE DESCRIPTION

Replace twenty (20) panes of 24" X 24" glass in wood sashes.

Removal of screens and cutting of glass are required.

TOTALS (Craft & Estimated Time)

20 CHAPTER	GLAZING	REVISION	5 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT
PT-201 PT-202 PT-241	<u>INSTALL GLASS PANE IN NEW WOOD SASH</u>  CUTTING OF GLASS INCLUDED ● Regular strength                      4"X20" to 24"X24" ● Regular strength                      24"X24" to 36"X36" ● Regular strength                      2"X14"	.1670 .2420 2.004	PANE PANE WINDOW
	PRECUT GLASS ● Regular strength                      Up to 24"X24" ● Regular strength                      24"X24" to 36"X36"	.1361 .2111	PANE PANE
	<u>REMOVE AND INSTALL GLASS PANE IN STEEL SASH</u>		
PT-211	CUTTING OF GLASS REQUIRED ● Wire inserted                      Up to 24"X24"	.7992	PANE
PT-212	PRECUT GLASS ● Wire inserted                      Up to 24"X24"	.7682	PANE
PT-213 PT-214	<u>REMOVE AND INSTALL GLASS PANE IN WOOD SASH</u>		
	CUTTING OF GLASS REQUIRED ● Regular strength                      Up to 24"X24" ● Regular strength                      36"X36"	.4660 .6416	PANE PANE
	PRECUT GLASS ● Regular/double strength                      14"X20" to 24"X24" ● Regular strength                      24"X24" to 36"X36"	.2021 .5797	PANE PANE
PT-221	<u>REMOVE AND INSTALL PUTTY IN STEEL SASH</u>		
	● 6'9"X6'9" window, ten panes	.5271	PANE
PT-222 PT-223 PT-224 PT-225	<u>REMOVE AND INSTALL PUTTY IN WOOD SASH</u>		
	● One pane                      8"X10"	.2229	PANE
	● 24"X24" sash, six panes over six panes	.2476	PANE
	● 30"X30" sash, one pane over one pane	.7428	PANE
PT-225	● 36"X36" sash, one pane	.8914	PANE
PT-231	<u>REMOVE AND INSTALL ACCESS ITEMS</u>		
	● Remove and install window screen	.0488	SCREEN



30 CHAPTER	ROLLER PAINTING	REVISION	7 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT
	<p><u>SURFACE</u></p> <ul style="list-style-type: none"> <li>● Ceiling (no "cut ins" included)</li> <li>● Wall (no "cut ins" included)</li> <li>● Wall (includes "cut ins")</li> <li>● Wall and ceiling (includes "cut ins")</li> </ul>	<p>.0024 .0022 .0036 .0042</p>	<p>SQ FT SQ FT SQ FT SQ FT</p>
	<p><u>TRIM OR "CUT IN"</u></p> <ul style="list-style-type: none"> <li>● Brush paint trim or "cut in" prior to rolling. Includes baseboard, ceiling, around doors and windows, narrow trim and corners when adjacent walls are of different colors</li> <li>● Brush paint corners or "cut in" ceiling when adjacent surfaces are of the same color and being painted at the same time</li> </ul>	<p>.0059 .0036</p>	<p>LIN FT LIN FT</p>
	<p><u>OBJECTS</u></p> <ul style="list-style-type: none"> <li>● Chainlink fence (both sides included)</li> </ul>	<p>.0037</p>	<p>SQ FT</p>

## EXPLANATION AND SCOPE OF STANDARDS

These standards apply to spray painting a prepared surface that is within reach when standing. Task time standards for surface preparation and ladder use must be added as required.

Four categories of surfaces:

1. Standards for "flat, slightly curved and unobstructed surfaces" are used for large surfaces such as walls.
2. Standards for "flat, slightly curved surface with extra care" are used for objects requiring a quality finish such as furniture.
3. Standards for "irregular, angular or obstructed surface" are used for objects such as material handling equipment, ornamental metal objects and fire escapes.
4. Standards for "beams, truss or other structural members" are used for building materials such as pipe, steel joists, metal angles, channels, as well as structures such as metal decking.

Compressor, spray gun, hose, pressure feed tank or hydraulic pump for airless spraying, spray booth, hand truck, wiping cloth, screwdriver, hammer, bucket, paint, stirring paddle, funnel, strainer, solvents, fire extinguishers, personal safety equipment.

6. JOB PHASE DESCRIPTION	Airless spray paint interior of a 10' X 20' X 9' high storage room, including ceiling.
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8

40 CHAPTER	SPRAY PAINTING	REVISION	9 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT
	<u>AIRLESS SPRAY PAINTING</u>		
PT-411	● Flat, slightly curved and unobstructed surface	.0012	SQ FT
PT-412	● Flat, slightly curved surface with extra care	.0018	SQ FT
PT-415	● Irregular, angular or obstructed surface	.0021	SQ FT
PT-417	● Beams, truss or other structural members	.0018	SQ FT
	<u>CONVENTIONAL SPRAY PAINTING</u>		
PT-421	● Flat, slightly curved and unobstructed surface	.0016	SQ FT
PT-422	● Flat or slightly curved surface with extra care	.0026	SQ FT
PT-425	● Irregular, angular or obstructed surface	.0031	SQ FT
PT-427	● Beams, truss or other structural members	.0025	SQ FT





50 CHAPTER	SIGNS		REVISION	11 PAGE
REF.	TASK DESCRIPTION		UNIT HOURS	UNIT
	<u>BACKGROUND FOR SIGNS</u>			
PT-501	● Brush paint sign blank with primer and finish coat		.0111 .0169	SIGN + SQ FT
PT-503	● Spray paint sign blank with primer and finish coat		.0111 .0066	SIGN + SQ FT
PT-519	● Scotchlite - Apply film to sign blank		.0545 .0148	SIGN + SQ FT
	<u>LETTERS OR NUMBERS</u>			
	FREEHAND PAINTING			
PT-552	● Brush paint characters	Up to 3.5" high	.0250 .0326	SIGN + CHARACTER
PT-553	● Brush paint shadow or second coat	Up to 3.5" high	.0121	CHARACTER
PT-554	● Brush paint characters	4" to 6" high	.0250 .0453	SIGN + CHARACTER
PT-556	● Brush paint characters	7" to 15" high	.0250 .0852	SIGN + CHARACTER
PT-558	● Brush paint characters	Over 15" high	.0250 .1218	SIGN + CHARACTER
	PRESSURE SENSITIVE OVERLAYS			
PT-569	● Scotchlite characters to scotchlite background		.1102 .0077	SIGN + CHARACTER
	STENCILING			
PT-580	● Brush paint stencil characters		.0593 .0020	SIGN + CHARACTER
PT-584	● Spray paint characters	Up to 4" high	.0422 .0017	SIGN + CHARACTER
PT-585	● Spray paint characters	Over 4" high	.0422 .0046	SIGN + CHARACTER
	SCREEN PROCESSING			
PT-587	● Apply silk screen on sign blank		.1383 .0011	SIGN + CHARACTER
PT-589	● Apply silk screen to equipment		.1013 .0074	SIGN + CHARACTER



60 CHAPTER		SURFACE PREPARATION		REVISION		13 PAGE	
REF.		TASK DESCRIPTION		UNIT HOURS		UNIT	
<u>ABRASIVE CLEANING USING HAND TOOLS</u>							
FLAT, SLIGHTLY CURVED OR UNOBSTRUCTED SURFACE							
PT-601		● Wipe 100% of surface with cloth		.0010		SQ FT	
PT-631		● Wipe 100% of surface with cloth		.0004		LIN FT	
PT-602		● Sand 25% of surface and wipe 100%		.0012		SQ FT	
PT-632		● Sand 25% of surface and wipe 100%		.0005		LIN FT	
PT-604		● Sand 100% of surface and wipe 100%		.0021		SQ FT	
PT-634		● Sand 100% of surface and wipe 100%		.0008		LIN FT	
PT-603		● Scrape or wire brush 25%, sand 50%, wipe 100%		.0028		SQ FT	
PT-633		● Scrape or wire brush 25%, sand 50%, wipe 100%		.0010		LIN FT	
IRREGULAR, ANGULAR OR DIFFICULT TO REACH SURFACE							
PT-605		● Wipe 100% of surface with cloth		.0019		SQ FT	
PT-635		● Wipe 100% of surface with cloth		.0007		LIN FT	
PT-606		● Sand 25% of surface and wipe 100%		.0028		SQ FT	
PT-636		● Sand 25% of surface and wipe 100%		.0010		LIN FT	
PT-608		● Sand 100% of surface and wipe 100%		.0055		SQ FT	
PT-638		● Sand 100% of surface and wipe 100%		.0020		LIN FT	
PT-607		● Scrape or wire brush 25%, sand 50%, wipe 100%		.0057		SQ FT	
PT-637		● Scrape or wire brush 25%, sand 50%, wipe 100%		.0021		LIN FT	
OBJECTS							
PT-612		● Pipe or column, up to 1.5" dia.		Sand and wipe		.0014 LIN FT	
PT-613		● Pipe or column, 2" to 4" dia.		Sand and wipe		.0042 LIN FT	
PT-614		● Pipe or column, 4.5" to 8" dia.		Sand and wipe		.0083 LIN FT	
PT-621		● Window sash and trim		Wipe or brush		.1480 SIDE	
PT-622		● Window sash and trim		Sand and wipe		.3635 SIDE	
PT-623		● Window sash and trim		Scrape, sand and wipe		.3797 SIDE	
PT-624		● Door (paneled or smooth)		Wipe or brush		.0601 SIDE	
PT-625		● Door (paneled or smooth)		Sand and wipe		.1441 SIDE	
PT-626		● Door (paneled or smooth)		Scrape, sand and wipe		.1518 SIDE	
PT-627		● Doorway or door jamb		Wipe or brush		.0485 SIDE	
PT-628		● Doorway or door jamb		Sand and wipe		.0937 SIDE	
PT-629		● Doorway or door jamb		Scrape, sand and wipe		.0971 SIDE	



60 CHAPTER	CONTINUED	REVISION	15 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT
<u>ABRASIVE CLEANING USING SANDBLASTING EQUIPMENT</u>			
PT-640	● Concrete, masonry or stucco	.0060	SQ FT
PT-641	● Flat or slightly curved metal - commercial blast	.0157	SQ FT
PT-642	● Flat or slightly curved metal - near white blast	.0309	SQ FT
PT-643	● Flat or slightly curved metal - white metal blast	.0530	SQ FT
PT-647	● Trusses or other structural members - commercial blast	.0284	SQ FT
PT-648	● Trusses or other structural members - near white blast	.0568	SQ FT
PT-649	● Trusses or other structural members - white metal blast	.0981	SQ FT
<u>MASKING</u>			
PT-651	● Mask door handle or other small object	.0139	OBJECT
PT-652	● Mask wall fan or other medium size object	.0363	OBJECT
PT-653	● Mask wall, trim, door, window perimeter, etc.	.0040	LIN FT
<u>REPAIR SURFACE</u>			
PT-673	● V-out old crack and apply plaster or spackle	.0337	LIN FT
CT-316	● Patch hole in gypsum wallboard	.2034	SQ FT
PT-678	● Finish new gypsum board seams with three coats of compound	.0214	SQ FT
PT-680	● Fill nail holes and cracks in wood surfaces with compound	.0038	SQ FT
PT-681	● Fill nail holes and cracks in wood surfaces with compound	.0040	LIN FT
PT-684	● Apply caulking with hand operated cartridge gun	.0024	LIN FT
PT-685	● Remove old caulking with hand tools and apply new caulking with hand operated cartridge gun	.0054	LIN FT

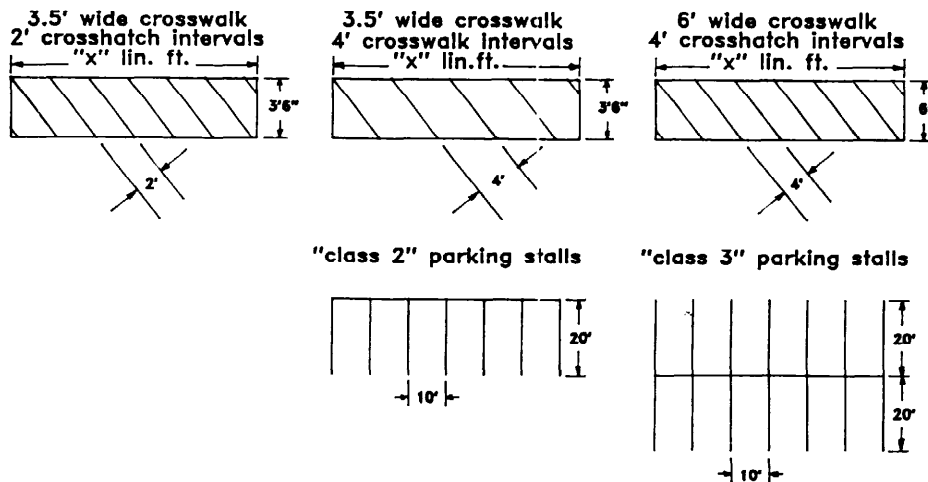
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PAGE

## TRAFFIC STRIPING

## EXPLANATION AND SCOPE OF STANDARDS

Application

These standards apply to pavement marking using machines that are hand-guided by a walking operator. These task time standards are not intended for applications using riding types of marking. The task time standard is for applying one coat. For multiple coats, occurrences the unit hours as necessary.

RemarksMaterials

Police permit, personal safety clothing, traffic marker cones, caution signs, broom, shovel, tape measure, chalk, snapline, templates, solvents, buckets, cover-up paint, brush, aerosol spray paint, striping spray paint, reflective media, funnel, self propelled or hand propelled striping machine, gas can, hand tools, wiping cloths.

6. JOB PHASE DESCRIPTION Layout and stripe 100 parking stalls in middle of resurfaced bowling parking lot. Use traffic marking cones to block each of the two entrances to the parking lot. (NOTE: This installation uses a push type striping machine.)

REFERENCE 7	TASK DESCRIPTION 8	9. EPS ESTIMATED TIME			NON-EPS ESTIMATED TIME 10
		UNIT HOURS a.	OCCUR- RENCE b.	CRAFT TIME c.	
PT-760	Place & remove traffic markers (2 entrances X 4 cones) = 8	.0098	8	.1	
PT-701	Lay out 100 class 3 parking stalls (51 lines X 40') + (1 line X 500') = 2540'	.0015	2540	3.9	
PT-726	Strip 100 class 3 parking stalls	.0208	100	2.1	
	NOTE: Add additional time for traffic striping (per day) to complete craft time.				
		TOTALS (Craft & Estimated Time)			

70 CHAPTER	TRAFFIC STRIPING	REVISION	17 PAGE
REF.	TASK DESCRIPTION	UNIT HOURS	UNIT
	<u>LAY OUT OF PAVEMENT STRIPING</u>		
PT-701	TRAFFIC STRIPE, CROSSWALK OR PARKING STALL ● Single line	.0015	LIN FT
	<u>APPLICATION OF PAVEMENT STRIPING WITH PUSH TYPE STRIPING MACHINE</u>		
PT-711	TRAFFIC STRIPE ● Single line	.0010	LIN FT
PT-715	CROSSWALK ● 3.5' wide with crosshatching at 2' intervals	.0088	LIN FT
PT-716	● 3.5' wide with crosshatching at 4' intervals	.0052	LIN FT
PT-717	● 6' wide with crosshatching at 4' intervals	.0049	LIN FT
PT-725	PARKING STALLS ● Class 2	.0297	STALL
PT-726	● Class 3	.0208	STALL
	<u>APPLICATION OF PAVEMENT STRIPING WITH SELF-PROPELLED STRIPING MACHINE</u>		
PT-731	TRAFFIC STRIPE ● Single line	.0001	LIN FT
	<u>OBJECTS</u>		
PT-751	NUMERALS ● Spray stencil 2" to 4" high numeral	.0092	CHARACTER
PT-171	SAFETY STRIPE ● Brush corrugated metal surface	.2151	SQ FT
PT-172	● Brush smooth metal surface	.0426	SQ FT
PT-173	● Brush wood surface	.0701	SQ FT
	<u>OTHER</u>		
PT-760	TRAFFIC MARKER ● Placement and removal	.0098	MARKER

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## II. TASK TIME DETAILS

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## PT-101

BRUSH ONE COAT OF PAINT ON CELO-TEX FIBER BLOCK OR ACOUSTICAL CEILING

## NO WORK UNIT DESCRIPTION

- =====
- 1 APPLY ONE COAT OF PAINT ON CELO-TEX FIBER BLOCK OR ACOUSTICAL CEILING WITH BRUSH
  - 2 IN-PROCESS SETUP AND HANDLING TIME
  - 3 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-101 = .00777 HRS PER SQ FT

## PT-105

BRUSH ONE COAT OF PAINT ON ONE SIDE OF EXPANDED METAL

## NO WORK UNIT DESCRIPTION

- =====
- 1 APPLY ONE COAT OF PAINT ON EXPANDED METAL (ONE SIDE) WITH BRUSH
  - 2 IN-PROCESS SETUP AND HANDLING TIME
  - 3 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

VT-105 = .01342 HRS PER SQ FT

## PT-102

BRUSH ONE COAT OF PAINT ON CLAPBOARD SURFACE

## NO WORK UNIT DESCRIPTION

- =====
- 1 APPLY ONE COAT OF PAINT ON CLAPBOARD SURFACE WITH BRUSH
  - 2 IN-PROCESS SETUP AND HANDLING TIME
  - 3 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-102 = .00764 HRS PER SQ FT

## PT-106

BRUSH ONE COAT OF PAINT ON FINISHED/SMOOTH METAL SURFACE

## NO WORK UNIT DESCRIPTION

- =====
- 1 APPLY ONE COAT OF PAINT ON FINISHED/SMOOTH METAL SURFACE WITH BRUSH
  - 2 IN-PROCESS SETUP AND HANDLING TIME
  - 3 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-106 = .00635 HRS PER SQ FT

## PT-103

BRUSH ONE COAT OF PAINT ON FLAT CONCRETE SURFACE

## NO WORK UNIT DESCRIPTION

- =====
- 1 APPLY ONE COAT OF PAINT ON FLAT CONCRETE SURFACE WITH BRUSH
  - 2 IN-PROCESS SETUP AND HANDLING TIME
  - 3 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-103 = .00602 HRS PER SQ FT

## PT-107

BRUSH ONE COAT OF PAINT ON TERRA COTTA BLOCK

## NO WORK UNIT DESCRIPTION

- =====
- 1 APPLY ONE COAT OF PAINT ON TERRA COTTA BLOCK WITH BRUSH
  - 2 IN-PROCESS SETUP AND HANDLING TIME
  - 3 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-107 = .00667 HRS PER SQ FT

## PT-104

BRUSH ONE COAT OF PAINT ON CORRUGATED OR PERFORATED METAL SURFACE

## NO WORK UNIT DESCRIPTION

- =====
- 1 APPLY ONE COAT OF PAINT ON CORRUGATED OR PERFORATED METAL SURFACE WITH BRUSH
  - 2 IN-PROCESS SETUP AND HANDLING TIME
  - 3 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-104 = .00669 HRS PER SQ FT

## PT-108

BRUSH ONE COAT OF PAINT ON WOOD, PLYWOOD OR PLASTERED SURFACE

## NO WORK UNIT DESCRIPTION

- =====
- 1 APPLY ONE COAT OF PAINT ON WOOD, PLYWOOD OR PLASTERED SURFACE WITH BRUSH
  - 2 IN-PROCESS SETUP AND HANDLING TIME
  - 3 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-108 = .00486 HRS PER SQ FT

## PT-121

BRUSH ONE COAT OF PAINT ON DOOR PANEL(S) OR SIDE(S)

## NO WORK UNIT DESCRIPTION

- =====
- 1 APPLY A COAT OF PAINT ON DOOR PANEL(S) OR SIDE(S) WITH BRUSH
  - 2 IN-PROCESS SET UP AND HANDLING TIME
  - 3 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-121 = .00486 HRS PER SQ FT

## PT-122

BRUSH ONE COAT OF PAINT ON DOOR EDGES

## NO WORK UNIT DESCRIPTION

- =====
- 1 APPLY ONE COAT OF PAINT ON DOOR EDGES WITH BRUSH
  - 2 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-122 = .00403 HRS PER LIN FT

## PT-123

BRUSH COAT OF PAINT ON DOORWAY OR DOOR JAMB AND CASING

## NO WORK UNIT DESCRIPTION

- =====
- 1 APPLY ONE COAT OF PRIMER OR PAINT ON DOOR JAMB OR CASING WITH BRUSH
  - 2 IN-PROCESS SET UP AND HANDLING TIME
  - 3 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-123 = .00548 HRS PER LIN FT

## PT-124

BRUSH FINISH COAT OF PAINT ON METAL GRILLE

## NO WORK UNIT DESCRIPTION

- =====
- 1 APPLY ONE COAT OF PAINT ON METAL GRILLE USING 5" BRUSH
  - 2 IN-PROCESS SETUP AND HANDLING TIME
  - 3 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-124 = .01344 HRS PER SQ FT

## PT-125

BRUSH ONE COAT OF PAINT ON 4" GUTTER

## NO WORK UNIT DESCRIPTION

- =====
- 1 APPLY ONE COAT OF PAINT ON 4" GUTTER USING BRUSH
  - 2 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-125 = .01956 HRS PER LIN FT

## PT-126

BRUSH ONE COAT OF PAINT ON 1/2" DIA TO 1-1/2" DIA PIPE

## NO WORK UNIT DESCRIPTION

- =====
- 1 APPLY ONE COAT OF PAINT ON 1/2" TO 1-1/2" DIA PIPE WITH BRUSH
  - 2 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-126 = .00596 HRS PER LIN FT

## PT-127

BRUSH ONE COAT OF PAINT ON OVER 1-1/2" DIA TO 4" DIA PIPE

## NO WORK UNIT DESCRIPTION

- =====
- 1 APPLY ONE COAT OF PAINT ON OVER 1-1/2" DIA TO 4" OR COLUMN WITH BRUSH
  - 2 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-127 = .01083 HRS PER LIN FT

## PT-128

BRUSH ONE COAT OF PAINT ON OVER 4" DIA TO 8" DIA PIPE OR COLUMN

## NO WORK UNIT DESCRIPTION

- =====
- 1 APPLY ONE COAT OF PAINT ON OVER 4" DIA TO 8" DIA PIPE WITH BRUSH
  - 2 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-128 = .02017 HRS PER LIN FT

## PT-129

BRUSH COAT OF PAINT ON EXPOSED RAFTERS (16"-20" -24" C.C.), ALSO INCLUDES TWO SIDES AND EDGE OF FASCIA, EAVE SECTION (UNDERSIDE OF SHEATHING BETWEEN RAFTERS), AND EDGE AND SIDE OF EAVE BLOCKS (PER LIN FT OF ROOF)

## NO WORK UNIT DESCRIPTION

- =====
- 1 APPLY COAT OF PAINT ON FASCIA, 2 SIDES AND 1 EDGE
  - 2 APPLY COAT OF PAINT ON RAFTERS, 2 SIDES AND 1 EDGE
  - 3 APPLY COAT OF PAINT ON EAVE SECTION
  - 4 APPLY COAT OF PAINT ON EAVE BLOCKS, 2 SURFACES
  - 5 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-129 = .04976 HRS PER LIN FT

## PT-131

BRUSH ONE COAT OF PAINT ON WOOD, PLYWOOD OR PLASTERED SURFACE, UP TO 6" WIDE.

## NO WORK UNIT DESCRIPTION

- =====
- 1 APPLY ONE COAT OF PAINT ON WOOD, PLYWOOD AND PLASTERED SURFACE UP TO 6" IN WIDTH USING A BRUSH
  - 2 IN-PROCESS SET UP AND HANDLING TIME
  - 3 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-131 = .00358 HRS PER LIN FT

## PT-132

BRUSH COAT OF PAINT ON DOOR JAMB OR DOORWAY

## NO WORK UNIT DESCRIPTION

- =====
- 1 APPLY ONE COAT OF PRIMER OR PAINT ON DOOR CASING WITH BRUSH
  - 2 APPLY COAT OF PRIMER OR PAINT ON DOOR JAMB WITH BRUSH
  - 3 IN-PROCESS SETUP AND HANDLING TIME
  - 4 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-132 = .28201 HRS PER SIDE

## PT-133

BRUSH COAT OF PAINT ON EXTERIOR OR INTERIOR SIDE OF DOUBLE HUNG WINDOW, ONE PANE OVER ONE PANE INCLUDING SASHES AND RELATED TRIM

## NO WORK UNIT DESCRIPTION

- =====
- 1 RAISE AND LOWER (2) SASHES
  - 2 APPLY COAT OF PRIMER OR FINISH COAT OF PAINT ON WINDOW SASHES AND RELATED TRIM MATERIAL WITH BRUSH
  - 3 WIPE PAINT FROM GLASS PANES
  - 4 IN-PROCESS SET UP AND HANDLING TIME
  - 5 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-133 = .65641 HRS PER SIDE

## PT-134

BRUSH COAT OF PAINT ON EXTERIOR OR INTERIOR SIDE OF DOUBLE HUNG WINDOW, TWO PANES OVER TWO PANES, INCLUDING SASHES AND RELATED TRIM

## NO WORK UNIT DESCRIPTION

- =====
- 1 RAISE AND LOWER (2) SASHES
  - 2 APPLY COAT OF PRIMER OR FINISH COAT OF PAINT ON WINDOW SASHES AND RELATED TRIM MATERIALS
  - 3 WIPE PAINT FROM GLASS PANES
  - 4 IN-PROCESS SET UP AND HANDLING TIME
  - 5 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-134 = .77790 HRS PER SIDE

## PT-135

BRUSH COAT OF PAINT ON EXTERIOR OR INTERIOR SIDE OF DOUBLE HUNG WINDOW, SIX PANES OVER SIX PANES, INCLUDING SASHES AND RELATED TRIM

## NO WORK UNIT DESCRIPTION

- =====
- 1 RAISE AND LOWER (2) SASHES
  - 2 APPLY COAT OF PRIMER OR FINISH COAT OF PAINT ON WINDOW SASHES AND RELATED TRIM MATERIAL WITH BRUSH
  - 3 WIPE PAINT FROM GLASS PANES
  - 4 IN-PROCESS SET UP AND HANDLING TIME
  - 5 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-135 = .94379 HRS PER SIDE

## PT-136

BRUSH ONE COAT OF PAINT ON DOOR

## NO WORK UNIT DESCRIPTION

- =====
- 1 APPLY ONE COAT OF PRIMER OR PAINT ON DOOR PANEL WITH BRUSH
  - 2 APPLY ONE COAT OF PRIMER OR PAINT ON DOOR EDGES WITH BRUSH
  - 3 IN-PROCESS SET UP AND HANDLING TIME
  - 4 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-136 = .17500 HRS PER SIDE

## PT-151

BRUSH ONE COAT OF ALUMINUM PAINT ON WATERPROOF TAR SURFACE

## NO WORK UNIT DESCRIPTION

- =====
- 1 APPLY ALUMINUM COAT ON WATERPROOF TAR SURFACE (NEW) WITH 4" BRUSH
  - 2 IN-PROCESS SETUP AND HANDLING TIME
  - 3 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-151 = .00403 HRS PER SQ FT

## PT-152

BRUSH ONE COAT OF ENAMEL PAINT ON METAL SURFACE

## NO WORK UNIT DESCRIPTION

- =====
- 1 APPLY FINISH COAT OF ENAMEL PAINT ON METAL SURFACE WITH 4" BRUSH
  - 2 IN-PROCESS AND HANDLING TIME
  - 3 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-152 = .00724 HRS PER SQ FT

PT-153

BRUSH ONE COAT OF RED LEAD ON SMOOTH METAL SURFACE

NO WORK UNIT DESCRIPTION

=====

1 APPLY ONE COAT OF RED LEAD ON METAL SURFACE USING BRUSH

2 IN-PROCESS SETUP AND HANDLING TIME

3 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-153 = .00894 HRS PER SQ FT

PT-154

BRUSH ONE COAT OF SHELLAC ON PLASTER AND/OR WOOD SURFACE (FLAT)

NO WORK UNIT DESCRIPTION

=====

1 APPLY COAT OF SHELLAC ON WOOD OR PLASTER SURFACE USING BRUSH

2 IN-PROCESS SETUP AND HANDLING TIME

3 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-154 = .00488 HRS PER SQ FT

PT-155

BRUSH ONE COAT OF ZINC CHROMATE ON SMOOTH METAL SURFACE

NO WORK UNIT DESCRIPTION

=====

1 PRIME COAT METAL WITH ZINC CHROMATE USING 4" BRUSH

2 IN-PROCESS SETUP AND HANDLING TIME

3 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-155 = .01174 HRS PER SQ FT

PT-163

BRUSH ONE COAT OF PAINT ON TRIM MATERIAL AND OTHER NARROW SURFACES UP TO 3" WIDE TO INCLUDE WOOD, METAL, CONCRETE, PLASTER AND TERRA COTTA MATERIALS

NO WORK UNIT DESCRIPTION

=====

1 APPLY COAT OF PAINT ON WOOD TRIM OR "CUT IN" WOOD STRIP UP TO 3" WIDE WITH BRUSH

2 APPLY COAT OF PAINT ON SMOOTH OR FINISHED METAL STRIP UP TO 3" WIDE OR "CUT IN" WITH BRUSH

3 APPLY COAT OF PAINT ON PLASTER SURFACE UP TO 3" WIDE OR "CUT IN" WITH BRUSH

4 APPLY COAT OF PAINT ON CORRUGATED METAL STRIP UP TO 3" WIDE OR "CUT IN" WITH BRUSH

5 APPLY COAT OF PAINT ON CONCRETE SURFACE UP TO 3" WIDE OR "CUT IN" WITH BRUSH

6 APPLY COAT OF PAINT ON TERRA COTTA SURFACE UP TO 3" WIDE OR "CUT IN" WITH BRUSH

7 IN-PROCESS SET UP MD HANDLING TIME

8 ADDITIONAL JOB PREPARATION TIRE FOR PAINTING

PT-163 = .00586 HRS PER LIN FT

PT-171

BRUSH PAINT SAFETY STRIPES ON CORRUGATED METAL SURFACE

NO WORK UNIT DESCRIPTION

=====

1 PAINT SAFETY STRIPE ON CORRUGATED METAL WITH 1" WIDE BRUSH

2 ADDITIONAL JOB PREPARATION FOR PAINTING

PT-171 = .21504 HRS PER SQ FT

PT-172

BRUSH PAINT SAFETY STRIPES ON SHEET METAL SURFACE

NO WORK UNIT DESCRIPTION

=====

1 PAINT SAFETY STRIPE ON SMOOTH METAL WITH 1" WIDE BRUSH

2 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-172 = .04254 HRS PER SQ FT

PT-173

BRUSH PAINT SAFETY STRIPES ON WOOD PANEL SURFACE

NO WORK UNIT DESCRIPTION

=====

1 PAINT SAFETY STRIPE ON WOOD SURFACE WITH 1" BRUSH

2 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-173 = .07004 HRS PER SQ FT

PT-201

GLAZING - INSTALL GLASS PANE (24" X 24") IN NEW WOOD SASH, INCLUDING CUTTING GLASS TO SIZE

NO WORK UNIT DESCRIPTION

=====

1 INSTALL PANE IN NEW WOOD SASH ON JOB SITE WHERE NO GLASS TO BE REMOVED (PANE 14" X 20" - ONE PERSON

2 CUT AVERAGE SIZE PANE OF WINDOW GLASS

PT-201 = .16697 HRS PER PANE

## PT-202

GLAZING -- INSTALL LARGE SIZE GLASS PANE (24" X 24" TO 36" X 36") IN NEW WOOD SASH, INCLUDING CUTTING GLASS TO SIZE

## NO WORK UNIT DESCRIPTION

- =====
- 1 INSTALL PANE IN NEW WOOD SASH ON JOB SITE WHERE NO GLASS IS TO BE REMOVED W/MINIMUM DIMENSIONS OF 24" X 24" AND UP TO A MAXIMUM DIMENSION OF 36" X 36" (ONE PERSON)
  - 2 CUT AVERAGE SIZE PANE OF WINDOW GLASS
  - 3 ADDITIONAL MATERIAL HANDLING

PT-202 = .24196 HRS PER PANE

## PT-203

GLAZING - INSTALL MEDIUM SIZE PRECUT GLASS PANE (TO 24" X 24" IN SIZE) IN WOOD SASH

## NO WORK UNIT DESCRIPTION

- =====
- 1 INSTALL PANE IN NEW WOOD SASH ON JOB SITE WHERE NO GLASS TO BE REMOVED (PANE 14" X 20" - ONE PERSON)

PT-203 = .13604 HRS PER PANE

## PT-204

GLAZING -- INSTALL LARGE SIZE PRECUT GLASS PANE (TO 36" X 36" IN SIZE) IN NEW WOOD SASH

## NO WORK UNIT DESCRIPTION

- =====
- 1 INSTALL PANE IN NEW WOOD SASH ON JOB SITE WHERE NO GLASS IS TO BE REMOVED WITH MINIMUM DIMENSIONS OF 24" X 24" AND UP TO A MAXIMUM DIMENSION OF 36" X 36" (ONE PERSON)
  - 2 ADDITIONAL MATERIAL HANDLING

PT-204 = .21103 HRS PER PANE

## PT-211

GLAZING - REMOVE AND INSTALL SMALL TO MEDIUM SIZE WIRE INSERTED GLASS PANE (TO 24" X 24" IN SIZE), INCLUDING CUTTING GLASS TO SIZE

## NO WORK UNIT DESCRIPTION

- =====
- 1 REMOVE AND INSTALL EXTRA HEAVY WIRE INSERTED WINDOW PANE IN STEEL SASH 14" X 20" (ONE PERSON)
  - 2 CUT AVERAGE SIZE PANE OF WINDOW GLASS.

PT-211 = .79913 HRS PER PANE

## PT-212

GLAZING -- REMOVE AND INSTALL SMALL TO MEDIUM SIZE WIRE INSERTED PRECUT GLASS PANE (TO 24" X 24" IN SIZE) IN STEEL SASH

## NO WORK UNIT DESCRIPTION

- =====
- 1 REMOVE AND INSTALL EXTRA HEAVY WIRE INSERTED WINDOW PANE IN STEEL SASH 14" X 20" (ONE PERSON)

PT-212 = .76820 HRS PER PANE

## PT-213

GLAZING -- REMOVE AND INSTALL GLASS PANE (TO 24" X 24" IN SIZE) IN WOOD SASH, INCLUDING CUTTING GLASS TO SIZE

## NO WORK UNIT DESCRIPTION

- =====
- 1 REMOVE AND INSTALL AVERAGE SIZE WINDOW PANE IN WOOD SASH  
--TWO PEOPLE
  - 2 CUT AVERAGE SIZE PANE OF WINDOW GLASS

PT-213 = .46592 HRS PER PANE

## PT-214

GLAZING -- REMOVE AND INSTALL LARGE SIZE GLASS PANE (TO 36" X 36" IN SIZE) IN WOOD SASH, INCLUDING CUTTING GLASS TO SIZE

## NO WORK UNIT DESCRIPTION

- =====
- 1 REMOVE AND INSTALL WINDOW PANE IN WOOD SASH - TWO PEOPLE ARE REQUIRED REPLACE PANE WITH MINIMUM DIMENSIONS OF 24" X 24" AND UP TO A MAXIMUM DIMENSION OF 36" X 36".
  - 2 CUT AVERAGE SIZE PANE OF WINDOW GLASS

PT-214 = .64154 HRS PER PANE

## PT-215

GLAZING -- REMOVE AND INSTALL PRECUT GLASS PANE (14" X 20") IN WOOD SASH

## NO WORK UNIT DESCRIPTION

- =====
- 1 REMOVE AND INSTALL AVERAGE SIZE WINDOW PANE IN WOOD SASH (ONE PERSON)

PT-215 = .20203 HRS PER PANE

PT-216

GLAZING - REMOVE AND INSTALL LARGE SIZE PRECUT  
GLASS PANE (TO 36" X 36" IN SIZE) IN WOOD SASH

NO WORK UNIT DESCRIPTION  
=====

1 REMOVE AND INSTALL WINDOW PANE IN WOOD SASH WHEN  
TWO MEN ARE REQUIRED. REPLACE PANE WITH MINIMUM  
DIMENSIONS OF 4" X 24" AND UP TO A MAXIMUM DIMEN-  
SION OF 36" X 36" (TWO PEOPLE)

PT-216 = .57968 HRS PER PANE

PT-221

GLAZING -- REMOVE AND INSTALL ALL PUTTY AROUND ONE  
OF TEN GLASS PANES IN A 6'9" X 6'9" STEEL SASH

NO WORK UNIT DESCRIPTION  
=====

1 REMOVE DETERIORATED PUTTY IN VARIOUS PLACES ON  
STEEL SASH AND REPLACE WITH NEW PUTTY (ONE PERSON)

PT-221 = .52708 HRS PER PANE

PT-222

GLAZING -- REMOVE AND INSTALL ALL PUTTY AROUND A  
8" X 10" GLASS PANE IN WOOD SASH

NO WORK UNIT DESCRIPTION  
=====

1 REMOVE DETERIORATED PUTTY IN VARIOUS PLACES ON  
WOOD SASH AND REPLACE WITH NEW PUTTY (ONE PERSON)

PT-222 = .22284 HRS PER PANE

PT-223

GLAZING -- REMOVE AND INSTALL ALL PUTTY AROUND ONE  
GLASS PANE IN A 24" X 24" WOOD SASH OF A DOUBLE  
HUNG WINDOW (SIX PANES OVER SIX PANES)

NO WORK UNIT DESCRIPTION  
=====

1 REMOVE DETERIORATED PUTTY IN VARIOUS PLACES ON  
WOOD SASH AND REPLACE WITH NEW PUTTY (ONE PERSON)

PT-223 = .24760 HRS PER PANE

PT-224

GLAZING -- REMOVE AND INSTALL ALL PUTTY AROUND ONE  
GLASS PANE IN A 30" X 30" WOOD SASH OF A DOUBLE  
HUNG WINDOW (ONE PANE OVER ONE PANE)

NO WORK UNIT DESCRIPTION  
=====

1 REMOVE DETERIORATED PUTTY IN VARIOUS PLACES ON  
WOOD SASH AND REPLACE WITH NEW PUTTY (ONE PERSON)

PT-224 = .74280 HRS PER PANE

PT-225

GLAZING - REMOVE AND INSTALL ALL PUTTY AROUND  
36" X 36" GLASS PANE IN A WOOD SASH WINDOW

NO WORK UNIT DESCRIPTION  
=====

1 REMOVE DETERIORATED PUTTY IN VARIOUS PLACES ON  
WOOD SASH AND REPLACE WITH NEW PUTTY (ONE PERSON)

PT-225 = .89136 HRS PER PANE

PT-231

REMOVE WINDOW SCREEN TO GAIN ACCESS AND REPLACE  
AFTER JOB IS COMPLETED

NO WORK UNIT DESCRIPTION  
=====

1 REMOVE AND INSTALL WINDOW SCREEN

PT-231 = .04880 HRS PER SCREEN

PT-241

GLAZING--INSTALL GLASS PANES (12"X14") IN NEW WOOD  
SASH WINDOW, 6 PANES OVER 6 PANES--INCLUDES CUT-  
TING GLASS TO SIZE

NO WORK UNIT DESCRIPTION  
=====

1 CUT GLASS 10 12"X14" SIZE PANES  
2 INSTALL GLASS PANES (12"X14") IN SASHES OF NEW  
WINDOW, 6 PANES OVER 6 PANES

PT-241 = 2.00364 HRS PER WINDOW

PT-301

APPLY ONE COAT OF PAINT TO ACOUSTICAL CEILING WITH  
ROLLER

NO WORK UNIT DESCRIPTION  
=====

1 ROLLER PAINT ONE COAT ON CEILING  
2 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-301 = .00239 HRS PER SQ FT

PT-320

APPLY ONE COAT OF PAINT TO A FLAT INTERIOR OR  
EXTERIOR SURFACE WITH ROLLER

NO WORK UNIT DESCRIPTION  
=====

1 ROLLER PAINT ONE COAT TO WALL  
2 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-320 = .00212 HRS PER SQ FT



PT-330

ROLLER PAINT WALLS OF A ROOM WITH 8' TO 10' HIGH CEILING, (INCLUDES "CUTTING IN" CORNERS, BASEBOARD, CEILING, AROUND DOOR(S) AND WINDOWS WITH BRUSH) (PER SQ FT OF WALL BEING PAINTED)

## NO WORK UNIT DESCRIPTION

- =====
- 1 "CUT IN" CORNERS IN A ROOM USING BRUSH
  - 2 "CUT-IN" BASEBOARD AND CEILING IN A ROOM USING BRUSH

- 3 "CUT IN" AROUND DOOR(S) AND WINDOWS USING BRUSH
- 4 APPLY PAINT TO WALLS USING ROLLER
- 5 ADDITIONAL JOB PREPARATION FOR PAINTING

PT-330 = .00352 HRS PER SQ FT

PT-340

ROLLER PAINT WALLS AND CEILING OF A ROOM WITH 8' TO 10' HIGH CEILING, (INCLUDES "CUTTING IN" CORNERS, BASEBOARD, AROUND DOOR(S) AND WINDOWS WITH BRUSH) (PER SQ FT OF WALL BEING PAINTED)

## NO WORK UNIT DESCRIPTION

- =====
- 1 "CUT IN" CORNERS IN A ROOM USING BRUSH
  - 2 "CUT IN" BASEBOARD IN ROOM USING BRUSH
  - 3 "CUT IN" AROUND DOOR(S) AND WINDOWS USING BRUSH
  - 4 APPLY PAINT TO WALLS USING A ROLLER
  - 5 APPLY PAINT TO CEILING USING A ROLLER
  - 6 ADDITIONAL JOB PREPARATION FOR PAINTING

PT-340 = .00420 HRS PER SQ FT

PT-350

APPLY ONE COAT OF PAINT TO BOTH SIDES OF A CHAIN LINK FENCE WITH ROLLER

## NO WORK UNIT DESCRIPTION

- =====
- 1 ROLL PAINT BOTH SIDES OF CHAIN LINK FENCE
  - 2 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-350 = .00363 HRS PER SQ FT

PT-411

AIRLESS SPRAY PAINTING OF FLAT SURFACE

## NO WORK UNIT DESCRIPTION

- =====
- 1 AIRLESS SPRAY PAINTING OF FLAT SURFACE
  - 2 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-411 = .00111 HRS PER SQ FT

PT-412

AIRLESS SPRAY PAINTING REQUIRING EXTRA CARE FOR A QUALITY FINISH

## NO WORK UNIT DESCRIPTION

- =====
- 1 AIRLESS SPRAY PAINTING REQUIRING EXTRA CARE
  - 2 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-412 = .00177 HRS PER SQ FT

PT-415

AIRLESS SPRAY PAINTING OF IRREGULAR SURFACE

## NO WORK UNIT DESCRIPTION

- =====
- 1 AIRLESS SPRAY PAINTING OF IRREGULAR SURFACE
  - 2 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-415 = .00209 HRS PER SQ FT

PT-417

AIRLESS SPRAY PAINTING OF STRUCTURAL MEMBERS

## NO WORK UNIT DESCRIPTION

- =====
- 1 AIRLESS SPRAY PAINTING OF STRUCTURAL MEMBERS
  - 2 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-417 = .00173 HRS PER SQ FT

PT-421

CONVENTIONAL SPRAY PAINTING OF FLAT SURFACE

## NO WORK UNIT DESCRIPTION

- =====
- 1 SPRAY ONE COAT ON FLAT SURFACE
  - 2 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-421 = .00160 HRS PER SQ FT

PT-422

CONVENTIONAL SPRAY PAINTING REQUIRING EXTRA CARE FOR A QUALITY FINISH

## NO WORK UNIT DESCRIPTION

- =====
- 1 CONVENTIONAL SPRAY ON SURFACE REQUIRING EXTRA CARE
  - 2 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-422 = .00253 HRS PER SQ FT

PT-425

CONVENTIONAL SPRAY PAINTING OF IRREGULAR SURFACE

NO WORK UNIT DESCRIPTION

=====

1 SPRAY ONE COAT ON IRREGULAR SURFACE

2 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-425 = .00304 HRS PER SQ FT

PT-427

CONVENTIONAL SPRAY PAINTING OF STRUCTURAL MEMBERS

NO WORK UNIT DESCRIPTION

=====

1 CONVENTIONAL SPRAY OF BEAR OR TRUSS

2 ADDITIONAL JOB PREPARATION TIME FOR PAINTING

PT-427 = .00247 HRS PER SQ FT

Pi-501

BRUSH PAINT SIGN BLANK WITH PRIMER AND FINISH COAT

NO WORK UNIT DESCRIPTION

=====

1 CLEAN SIGN BLANK

2 APPLY PRIME COAT OR FIRST COAT OF PAINT ON SIGN BLANK WITH BRUSH

3 BRUSH PAINT FINISH OR SECOND COAT ON SIGN BLANK

4 IN-PROCESS SETUP AND HANDLING TIME

PT-501 = .01105 HRS PER SIGN

+ .01687 HRS PER SQ FT

PT-503

SPRAY PAINT SIGN WITH PRIMER AND FINISH COAT

NO WORK UNIT DESCRIPTION

=====

1 CLEAN SIGN BLANK

2 SPRAY SIGN WITH TWO COATS

PT-503 = .01105 HRS PER SIGN

+ .00657 HRS PER SQ FT

PT-519

AFFIX SCOTCHLITE BACKGROUND TO METAL SIGN BLANK

NO WORK UNIT DESCRIPTION

=====

1 CLEAN METAL SIGN BLANK

2 AFFIX SCOTCHLITE BACKGROUND FILM TO SIGN BLANK

3 PROCESS SCOTCHLITE SIGN IN HEAT APPLICATOR MACHINE

PT-519 = .05443 HRS PER SIGN

+ .01480 HRS PER SQ FT

PT-552

LAYOUT AND PAINT LETTER OR NUMBER UP TO 3.5" HIGH ON PREVIOUSLY PREPARED SURFACE.

NO WORK UNIT DESCRIPTION

=====

1 LAYOUT .5" TO 3.5" LETTER AND PAINT WITH ONE COAT

PT-552 = .02500 HRS PER SIGN

+ .03253 HRS PER LETTER

PT-553

PAINT ADDITIONAL COAT, SHADOW EFFECT OR HIGHLIGHT TO PREVIOUSLY PAINTED LETTER UP TO 3.5" HIGH

NO WORK UNIT DESCRIPTION

=====

1 PAINT SECOND COAT ON PREVIOUSLY PAINTED LETTER UP TO 3.5" HIGH

PT-553 = .01210 HRS PER LETTER

PT-554

LAYOUT AND PAINT LETTER OR NUMBER 4 TO 6" HIGH ON PREVIOUSLY PREPARED SURFACE

NO WORK UNIT DESCRIPTION

=====

1 LAYOUT 4" TO 6" LETTER AND PAINT WITH ONE COAT

2 PAINT SECOND COAT ON 4" TO 6" LETTER

PT-554 = .02500 HRS PER SIGN

+ .04528 HRS PER LETTER

PT-556

LAYOUT AND PAINT LETTER OR NUMBER 7 TO 15" HIGH ON PREVIOUSLY PREPARED SURFACE

NO WORK UNIT DESCRIPTION

=====

1 LAYOUT 7" TO 15" LETTER AND PAINT WITH TWO COATS

PT-556 = .02500 HRS PER SIGN

+ .08520 HRS PER LETTER

PT-558

LAYOUT AND PAINT LETTER OR NUMBER 16 TO 24" HIGH ON PREVIOUSLY PREPARED SURFACE

NO WORK UNIT DESCRIPTION

=====

1 LAYOUT 16" TO 24" LETTER AND PAINT WITH TWO COATS

PT-558 = .02500 HRS PER SIGN

+ .12180 HRS PER LETTER

PT-569

AFFIX SCOTCHLITE CHARACTER TO SCOTCHLITE SIGN

NO WORK UNIT DESCRIPTION

=====

1 SET SIGN BACKGROUND FILM WITH SHORT HEAT CYCLE

2 AFFIX SCOTCHLITE CHARACTER TO SIGN BLANK

PT-569 = .11014 HRS PER SIGN

+ .00765 HRS PER CHARACTER

PT-580

PREPARE STENCIL AND BRUSH PAINT CHARACTER ON PREVIOUSLY PREPARED SURFACE

NO WORK UNIT DESCRIPTION

=====

1 PREPARE STENCIL FOR SIGN BAKING

2 BRUSH PAINT SIGN CHARACTERS USING STENCIL

PT-580 = .05921 HRS PER SIGN

+ .00200 HRS PER CHARACTER

PT-584

PREPARE STENCIL AND SPRAY PAINT LETTER UP TO 4" HIGH ON PREVIOUSLY PREPARED SURFACE

NO WORK UNIT DESCRIPTION

=====

1 PREPARE STENCIL AND POSITION FOR PAINTING

2 SPRAY PAINT STENCIL OF 3/4" TO 1" HIGH CHARACTERS

3 SPRAY PAINT STENCIL OF 2" TO 4" HIGH CHARACTERS

PT-584 = .04213 HRS PER SIGN

+ .00165 HRS PER CHARACTER

PT-585

PREPARE STENCIL AND SPRAY PAINT LETTER 4" TO 7" HIGH ON PREVIOUSLY PREPARED SURFACE

NO WORK UNIT DESCRIPTION

=====

1 PREPARE STENCIL AND POSITION FOR PAINTING

2 SPRAY PAINT STENCIL OF 5" TO 7" HIGH CHARACTERS

PT-585 = .04213 HRS PER SIGN

+ .00460 HRS PER CHARACTER

PT-587

PREPARE SILK SCREEN AND PAINT CHARACTER ON PREVIOUSLY PREPARED SIGN BLANK

NO WORK UNIT DESCRIPTION

=====

1 CUT STENCILED CHARACTER FROM FILM FOR SILK SCREEN

2 ATTACH SILK SCREEN TO FRAME

3 ADHERE FILM ON SILK

4 WALK TO SIGN BLANK

5 SET UP SILK SCREEN FOR SIGN PAINTING

6 STENCIL SILK SCREEN SIGN IN SHOP

PT-587 = .13830 HRS PER SIGN

+ .00109 HRS PER CHARACTER

PT-589

PREPARE SILK SCREEN AND PAINT CHARACTER ON PREVIOUSLY PREPARED EQUIPMENT OR VEHICLE

NO WORK UNIT DESCRIPTION

=====

1 CUT STENCILED CHARACTER FROM FILM FOR SILK SCREEN

2 ATTACH TO FRAME AND ADJUST

3 SET UP SILK SCREEN FOR SIGN PAINTING

4 STENCIL SILK SCREEN SIGN ON VEHICLE OR EQUIPMENT

PT-589 = .10130 HRS PER SIGN

+ .00739 HRS PER CHARACTER

PT-601

WIPE FIAT, SLIGHTLY CURVED OR UNOBSTRUCTED SURFACE WITH CLOTH

NO WORK UNIT DESCRIPTION

=====

1 WIPE FLAT SURFACE WITH CLOTH (FIRST SQ FT)

2 WIPE FLAT SURFACE WITH CLOTH (ADD'L SQ FT)

3 BEND AND ARISE WHILE WIPING A FLAT SURFACE

4 WALK TO NEXT AREA

PT-601 = .00091 HRS PER SQ FT

PT-602

SAND 25% OF FLAT, SLIGHTLY CURVED OR UNOBSTRUCTED SURFACE AND WIPE 100% OF SURFACE WITH CLOTH

NO WORK UNIT DESCRIPTION

=====

1 PREPARE TO SAND 25% OF SURFACE

2 SAND AND INSPECT 25% OF GOOD SURFACE

3 BEND AND ARISE WHILE SANDING SURFACE

4 WIPE 100% OF UNOBSTRUCTED SURFACE WITH CLOTH

PT-602 = .00119 HRS PER SQ FT

## PT-603

SCRAPE OR WIRE BRUSH 25% OF FLAT, SLIGHTLY CURVED OR UNOBSTRUCTED SURFACE, SAND 50% AND WIPE 100%

## NO WORK UNIT DESCRIPTION

- =====
- 1 CLEAN 12.5% OF SURFACE WITH WIRE BRUSH
  - 2 CLEAN 12.5% OF UNOBSTRUCTED SURFACE WITH SCRAPER
  - 3 BEND AND ARISE WHILE SCRAPING AND WIRE BRUSHING
  - 4 PREPARE TO SAND 50% OF SURFACE
  - 5 SAND AND INSPECT 50% OF GOOD SURFACE
  - 6 BEND AND ARISE WHILE SANDING SURFACE
  - 7 WIPE 10% OF SURFACE WITH CLOTH

PT-603 = .00271 HRS PER SQ FT

## PT-604

SAND 100% OF FLAT, SLIGHTLY CURVED OR UNOBSTRUCTED SURFACE AND WIPE 100% OF SURFACE WITH CLOTH

## NO WORK UNIT DESCRIPTION

- =====
- 1 PREPARE TO SAND SURFACE
  - 2 SAND AND INSPECT 100% OF UNOBSTRUCTED SURFACE
  - 3 BEND AND ARISE WHILE SANDING SURFACE
  - 4 WIPE 100% OF UNOBSTRUCTED SURFACE WITH CLOTH

PT-604 = .00204 HRS PER SQ FT

## PT-605

WIPE IRREGULAR, ANGULAR OR DIFFICULT TO REACH SURFACE WITH CLOTH

## NO WORK UNIT DESCRIPTION

- =====
- 1 WIPE IRREGULAR SURFACE WITH CLOTH (FIRST SQ FT)
  - 2 WIPE IRREGULAR SURFACE WITH CLOTH (ADD'L SQ FT)
  - 3 BEND AND ARISE WHILE WIPING IRREGULAR SURFACE
  - 4 WALK TO NEXT AREA

PT-605 = .00181 HRS PER SQ FT

## PT-606

SAND 25% OF IRREGULAR, ANGULAR OR DIFFICULT TO REACH SURFACE AND WIPE 100% OF SURFACE WITH CLOTH

## NO WORK UNIT DESCRIPTION

- =====
- 1 PREPARE TO SAND 25% OF SURFACE
  - 2 SAND AND INSPECT 25% OF BAD SURFACE
  - 3 BEND AND ARISE WHILE SANDING SURFACE
  - 4 WIPE 100% OF OBSTRUCTED SURFACE WITH CLOTH

PT-606 = .00273 HRS PER SQ FT

## PT-607

SCRAPE OR WIRE BRUSH 25% OF IRREGULAR, ANGULAR OR DIFFICULT TO REACH SURFACE, SAND 50% AND WIPE 100%

## NO WORK UNIT DESCRIPTION

- =====
- 1 CLEAR 12.5% OF SURFACE WITH WIRE BRUSH
  - 2 CLEAN 12.5% OF OBSTRUCTED SURFACE WITH SCRAPER
  - 3 BEND AND ARISE WHILE SCRAPING AND WIRE BRUSHING SURFACE
  - 4 PREPARE TO HAND SAND 50% OF AN OBSTRUCTED SURFACE
  - 5 SAND AND INSPECT SD% OF AN OBSTRUCTED SURFACE
  - 6 WIPE 100% OF AN OBSTRUCTED SURFACE WITH CLOTH

PT-607 = .00569 HRS PER SQ FT

## PT-608

SAND 100% OF IRREGULAR, ANGULAR OR DIFFICULT TO REACH SURFACE AND WIPE 100% OF SURFACE WITH CLOTH

## NO WORK UNIT DESCRIPTION

- =====
- 1 PREPARE TO SAND 100% OF AN OBSTRUCTED SURFACE
  - 2 SAND AND INSPECT 100% OF AN OBSTRUCTED SURFACE
  - 3 BEND AND ARISE WHILE SANDING 100% OF SURFACE
  - 4 WIPE 100% OF OBSTRUCTED SURFACE WITH CLOTH

PT-608 = .00546 HRS PER SQ FT

## PT-612

SAND AND WIPE UP TO 1.5" DIAMETER PIPE OR COLUMN

## NO WORK UNIT DESCRIPTION

- =====
- 1 PREPARE TO SAND SURFACE OF PIPE OR COLUMN
  - 2 SAND AND INSPECT 100% OF PIPE OR COLUMN
  - 3 WIPE 100% OF PIPE OR COLUMN

PT-612 = .00138 HRS PER LIN FT

## PT-613

SAND AND WIPE 2" TO 4" DIAMETER PIPE OR COLUMN

## NO WORK UNIT DESCRIPTION

- =====
- 1 PREPARE TO SAND SURFACE OF PIPE OR COLUMN
  - 2 SAND AND INSPECT 100% OF PIPE OR COLUMN
  - 3 WIPE 100% OF PIPE OR COLUMN

PT-613 = .00414 HRS PER LIN FT

## PT-614

SAND AND WIPE 4.5" TO 8" DIAMETER PIPE OR COLUMN

## NO WORK UNIT DESCRIPTION

- =====
- 1 PREPARE TO SAND SURFACE OF PIPE OR COLUMN
  - 2 SAND AND INSPECT 100% OF PIPE OR COLUMN
  - 3 WIPE 100% OF PIPE OR COLUMN

PT-614 = .00829 HRS PER LIN FT

## PT-621

WIPE OR BRUSH INTERIOR OR EXTERIOR OF WINDOW SASH  
AND RELATED TRIM PRIOR TO PAINTING

## NO WORK UNIT DESCRIPTION

- =====
- 1 PREPARE OBSTRUCTED SURFACE FOR PAINTING
  - 2 RAISE AND LOWER WINDOW SASH
  - 3 IN-PROCESS SET UP AND HANDLING TIME

PT-621 = .14800 HRS PER SIDE

## PT-622

SAND AND WIPE INTERIOR OR EXTERIOR OF WINDOW SASH  
AND RELATED TRIM PRIOR TO PAINTING

## NO WORK UNIT DESCRIPTION

- =====
- 1 PREPARE OBSTRUCTED SURFACE FOR PAINTING
  - 2 RAISE AND LOWER SASH
  - 3 IN-PROCESS SET UP AND HANDLING TIME

PT-622 = .36346 HRS PER SIDE

## PT-623

SCRAPE OR WIRE BRUSH, SAND AND WIPE INTERIOR OR  
EXTERIOR OF WINDOW SASH AND RELATED TRIM PRIOR TO  
PAINTING

## NO WORK UNIT DESCRIPTION

- =====
- 1 PREPARE OBSTRUCTED SURFACE FOR PAINTING
  - 2 RAISE AND LOWER WINDOW SASH
  - 3 IN-PROCESS SETUP AND HANDLING TIME

PT-623 = .37966 HRS PER SIDE

## PT-624

WIPE OR BRUSH INTERIOR OR EXTERIOR OF DOOR  
(PANELED OR SMOOTH) PRIOR TO PAINTING

## NO WORK UNIT DESCRIPTION

- =====
- 1 WIPE OR BRUSH DOOR PANEL PRIOR TO PAINTING
  - 2 WIPE OR BRUSH DOOR EDGES PRIOR TO PAINTING
  - 3 IN-PROCESS SET UP AND HANDLING TIME

PT-624 = .06005 HRS PER SIDE

## PT-625

SAND AND WIPE INTERIOR OR EXTERIOR OF DOOR  
(PANELED OR SMOOTH) PRIOR TO PAINTING

## NO WORK UNIT DESCRIPTION

- =====
- 1 SAND AND WIPE DOOR PANEL PRIOR TO PAINTING
  - 2 SAND AND WIPE DOOR EDGES PRIOR TO PAINTING
  - 3 IN-PROCESS SET UP AND HANDLING TIME

PT-625 = .14401 HRS PER SIDE

## PT-626

SCRAPE OR WIRE BRUSH, SAND AND WIPE INTERIOR OR  
EXTERIOR OF DOOR (PANELED OR SMOOTH) PRIOR TO  
PAINTING

## NO WORK UNIT DESCRIPTION

- =====
- 1 PREPARE DOOR PANEL PRIOR TO PAINTING
  - 2 PREPARE DOOR EDGES PRIOR TO PAINTING
  - 3 IN-PROCESS SET UP AND HANDLING TIME

PT-626 = .15173 HRS PER SIDE

## PT-627

WIPE OR BRUSH INTERIOR OR EXTERIOR OF DOORWAY/JAMB  
AND CASING PRIOR TO PAINTING

## NO WORK UNIT DESCRIPTION

- =====
- 1 WIPE OR BRUSH INTERIOR OR EXTERIOR OF DOORWAY/JAMB  
AND CASING PRIOR TO PAINTING
  - 2 IN-PROCESS SET UP AND HANDLING TIME

PT-627 = .04845 HRS PER SIDE

PT-628

SAND AND WIPE INTERIOR OR EXTERIOR OF DOORWAY/JAMB  
AND CASING PRIOR TO PAINTING

## NO WORK UNIT DESCRIPTION

- =====
- 1 SAND AND WIPE INTERIOR OR EXTERIOR OF DOORWAY/JAMB  
MO CASING PRIOR TO PAINTING
  - 2 IN-PROCESS SET UP AND HANDLING TIME

PT-628 = .09367 HRS PER SIDE

PT-629

SCRAPE OR WIRE BRUSH, SAND AND WIPE INTERIOR OR  
EXTERIOR OF DOORWAY/JAMB PRIOR TO PAINTING

## NO WORK UNIT DESCRIPTION

- =====
- 1 PREPARE INTERIOR OR EXTERIOR OF DOORWAY/JAMB AND  
CASING PRIOR TO PAINTING
  - 2 IN-PROCESS SET UP AND HANDLING TIME

PT-629 = .09707 HRS PER SIDE

PT-631

WIPE FLAT, SLIGHTLY CURVED OR UNOBSTRUCTED SURFACE  
WITH CLOTH

## NO WORK UNIT DESCRIPTION

- =====
- 1 WIPE FLAT SURFACE WITH CLOTH (FIRST LIN FT)
  - 2 WIPE FLAT SURFACE WITH CLOTH (ADD'L LIN FT)
  - 3 BEND AND ARISE WHILE WIPING A FLAT SURFACE
  - 4 WALK TO NEXT AREA

PT-631 = .00037 HRS PER LIN FT

PT-632

SAND 25% OF FLAT, SLIGHTLY CURVED OR UNOBSTRUCTED  
SURFACE AND WIPE 100% OF SURFACE WITH CLOTH

## NO WORK UNIT DESCRIPTION

- =====
- 1 PREPARE TO SAND 25% OF UNOBSTRUCTED SURFACE
  - 2 SAND AND INSPECT 25% OF UNOBSTRUCTED SURFACE
  - 3 BEND AND ARISE WHILE SANDING UNOBSTRUCTED SURFACE
  - 4 WIPE 100% OF UNOBSTRUCTED SURFACE WITH CLOTH

PT-632 = .00048 HRS PER LIN FT

PT-633

SCRAPE OR WIRE BRUSH 25% OF FLAT, SLIGHTLY CURVED  
OR UNOBSTRUCTED SURFACE, SAND 50% AND WIPE 100%

## NO WORK UNIT DESCRIPTION

- =====
- 1 BRUSH CLEAN 12.5% OF SURFACE WITH WIRE BRUSH
  - 2 SCRAPE 12.5% OF UNOBSTRUCTED SURFACE WITH SCRAPER
  - 3 BEND AND ARISE WHILE SCRAPING AND WIRE BRUSHING  
UNOBSTRUCTED SURFACE
  - 4 PREPARE TO SAND 50% OF UNOBSTRUCTED SURFACE
  - 5 SAND AND INSPECT 50% OF UNOBSTRUCTED SURFACE
  - 6 WIPE 100% OF UNOBSTRUCTED SURFACE WITH CLOTH

PT-633 = .00097 HRS PER LIN FT

PT-634

SAND 100% OF FLAT, SLIGHTLY CURVED OR UNOBSTRUCTED  
SURFACE AND WIPE 100% OF SURFACE WITH CLOTH

## NO WORK UNIT DESCRIPTION

- =====
- 1 PREPARE TO SAND UNOBSTRUCTED SURFACE
  - 2 SAND AND INSPECT 100% OF UNOBSTRUCTED SURFACE
  - 3 BEND AND ARISE WHILE SANDING UNOBSTRUCTED SURFACE
  - 4 WIPE 100% OF UNOBSTRUCTED SURFACE WITH CLOTH

PT-634 = .00080 HRS PER LIN FT

PT-635

WIPE IRREGULAR, ANGULAR OR DIFFICULT TO REACH  
SURFACE WITH CLOTH

## NO WORK UNIT DESCRIPTION

- =====
- 1 WIPE IRREGULAR SURFACE WITH CLOTH (FIRST LIN FT)
  - 2 WIPE IRREGULAR SURFACE WITH CLOTH (ADD'L LIN FT)
  - 3 BEND AND ARISE WHILE WIPING IRREGULAR SURFACE
  - 4 WALK TO NEXT AREA

PT-635 = .00065 HRS PER LIN FT

PT-636

SAND 25% OF IRREGULAR, ANGULAR OR DIFFICULT TO  
REACH SURFACE AND WIPE 100% OF SURFACE WITH CLOTH

## NO WORK UNIT DESCRIPTION

- =====
- 1 PREPARE TO SAND 25% OF SURFACE
  - 2 SAND AND INSPECT 25% OF OBSTRUCTED SURFACE
  - 3 BEND AND ARISE WHILE SANDING 25% OF OBSTRUCTED  
SURFACE
  - 4 WIPE 100% OF OBSTRUCTED SURFACE WITH CLOTH

PT-636 = .00099 HRS PER LIN FT

PT-637

SCRAPE OR WIRE BRUSH 25% OF IRREGULAR, ANGULAR OR  
DIFFICULT TO REACH SURFACE, SAND 50% AND WIPE 100%

## NO WORK UNIT DESCRIPTION

- =====
- 1 BRUSH CLEAN 12.5% OF SURFACE WITH WIRE BRUSH
  - 2 SCRAPE 12.5% OF OBSTRUCTED SURFACE WITH SCRAPER
  - 3 BEND AND ARISE MILE SCRAPING AND WIRE BRUSHING  
25% OF AN OBSTRUCTED SURFACE
  - 4 PREPARE TO HAND SAND 50% OF AN OBSTRUCTED SURFACE
  - 5 SAND AND INSPECT 50% OF AN OBSTRUCTED SURFACE
  - 6 BEND AND ARISE WHILE SANDING 50% OF AN OBSTRUCTED  
SURFACE
  - 7 WIPE 100% OF AN OBSTRUCTED SURFACE WITH CLOTH

PT-637 = .00208 HRS PER LIN FT

PT-638

SAND 100% OF IRREGULAR, ANGULAR OR DIFFICULT TO  
REACH SURFACE AND WIPE 100% OF SURFACE WITH CLOTH

## NO WORK UNIT DESCRIPTION

- =====
- 1 PREPARE TO SAND 100% OF AN OBSTRUCTED SURFACE
  - 2 SAND AND INSPECT 100% OF AN OBSTRUCTED SURFACE
  - 3 BEND AND ARISE WHILE SANDING 100% OF AN OBSTRUCTED  
SURFACE
  - 4 WIPE 100% OF AN OBSTRUCTED SURFACE WITH CLOTH

PT-638 = .00198 HRS PER LIN FT

PT-640

SANDBLAST MASONRY SURFACE

## NO WORK UNIT DESCRIPTION

- =====
- 1 LOAD 300 POUNDS OF SAND INTO SANDBLASTING POT
  - 2 PREPARE TO SANDBLAST SURFACE
  - 3 POSITION GUN PRIOR TO BLASTING
  - 4 SANDBLAST MASONRY, CONCRETE OR STUCCO SURFACE
  - 5 INSPECT SURFACE AFTER BLASTING
  - 6 REMOVE SPENT SAND FROM SANDBLASTING AREA

PT-640 = .00597 HRS PER SQ FT

PT-641

SANDBLAST FLAT OR SLIGHTLY ROUNDED METAL SURFACE,  
COMMERCIAL BLAST

## NO WORK UNIT DESCRIPTION

- =====
- 1 LOAD 300 POUNDS OF SAND INTO SANDBLASTING POT
  - 2 PREPARE TO SANDBLAST SURFACE
  - 3 POSITION GUN PRIOR TO BLASTING
  - 4 SANDBLAST FLAT OR SLIGHTLY ROUNDED METAL SURFACE,  
COMMERCIAL BLAST
  - 5 INSPECT SURFACE AFTER BLASTING
  - 6 REMOVE SPENT SAND FROM SANDBLASTING AREA

PT-641 = .01566 HRS PER SQ FT

PT-642

SANDBLAST FLAT OR SLIGHTLY ROUNDED METAL SURFACE,  
NEAR WHITE METAL BLAST

## NO WORK UNIT DESCRIPTION

- =====
- 1 LOAD 300 POUNDS OF SAND INTO SANDBLASTING POT
  - 2 PREPARE TO SANDBLAST SURFACE
  - 3 POSITION GUN PRIOR TO BLASTING
  - 4 SANDBLAST FLAT OR SLIGHTLY ROUNDED METAL SURFACE,  
NEAR WHITE METAL BLAST
  - 5 INSPECT SURFACE AFTER BLASTING
  - 6 REMOVE SPENT SAND FROM SANDBLASTING AREA

PT-642 = .03084 HRS PER SQ FT

PT-643

SANDBLAST FLAT OR SLIGHTLY ROUNDED METAL SURFACE,  
WHITE METAL BLAST

## NO WORK UNIT DESCRIPTION

- =====
- 1 LOAD 300 POUNDS OF SAND INTO SANDBLASTING POT
  - 2 PREPARE TO SANDBLAST SURFACE
  - 3 POSITION GUN PRIOR TO BLASTING
  - 4 SANDBLAST FLAT OR SLIGHTLY ROUNDED METAL SURFACE,  
WHITE METAL BLAST
  - 5 INSPECT SURFACE AFTER BLASTING
  - 6 REMOVE SPENT SAND FROM SANDBLASTING AREA

PT-643 = .05292 HRS PER SQ FT

PT-647

SANDBLAST METAL BEAMS, TRUSSES OR OTHER STRUCTURAL  
MEMBERS, COMMERCIAL BLAST

## NO WORK UNIT DESCRIPTION

- =====
- 1 LOAD 300 POUNDS OF SAND INTO SANDBLASTING POT
  - 2 PREPARE TO SANDBLAST SURFACE
  - 3 POSITION GUN PRIOR TO BLASTING
  - 4 SANDBLAST METAL BEAMS, TRUSSES OR OTHER STRUCTURAL  
MEMBERS
  - 5 INSPECT SURFACE AFTER BLASTING
  - 6 REMOVE SPENT SAND FROM SANDBLASTING AREA

PT-647 = .02840 HRS PER SQ FT

PT-648

SANDBLAST METAL BEAMS, TRUSSES OR OTHER STRUCTURAL MEMBERS, NEAR WHITE METAL BLAST

## NO WORK UNIT DESCRIPTION

- =====
- 1 LOAD 300 POUNDS OF SAND INTO SANDBLASTING POT
  - 2 PREPARE TO SANDBLAST SURFACE
  - 3 POSITION GUN PRIOR TO BLASTING
  - 4 SANDBLAST METAL BEAMS, TRUSSES OR OTHER STRUCTURAL MEMBERS, NEAR WHITE METAL BLAST
  - 5 INSPECT SURFACE AFTER BLASTING
  - 6 REMOVE SPENT SAND FROM SANDBLASTING AREA

PT-648 = .05678 HRS PER SQ FT

PT-649

SANDBLAST METAL BEAMS, TRUSSES OR OTHER STRUCTURAL MEMBERS, WHITE METAL BLAST

## NO WORK UNIT DESCRIPTION

- =====
- 1 LOAD 300 POUNDS OF SAND INTO SANDBLASTING POT
  - 2 PREPARE TO SANDBLAST SURFACE
  - 3 POSITION GUN PRIOR TO BLASTING
  - 4 SANDBLAST METAL BEAMS, TRUSSES OR OTHER STRUCTURAL MEMBERS, WHITE METAL BLAST
  - 5 INSPECT SURFACE AFTER BLASTING
  - 6 REMOVE SPENT SAND FROM SANDBLASTING AREA

PT-649 = .09805 HRS PER SQ FT

PT-651

MASK SMALL OBJECT WITH TAPE AND REMOVE

## NO WORK UNIT DESCRIPTION

- =====
- 1 PICK UP SUPPLIES AND/OR EQUIPMENT AND LAY ASIDE
  - 2 WALK 20 PACES TO OBJECT
  - 3 MASK SMALL OBJECT
  - 4 REMOVE TAPE FROM SMALL OBJECT
  - 5 DISPOSE OF WASTE TO TRASH CAN OUTSIDE BUILDING

PT-651 = .01381 HRS PER OBJECT

PT-652

MASK MEDIUM SIZED OBJECT WITH TAPE AND REMOVE

## NO WORK UNIT DESCRIPTION

- =====
- 1 PICK UP SUPPLIES AND/OR EQUIPMENT AND LAY ASIDE
  - 2 WALK 20 PACES TO OBJECT
  - 3 MASK MEDIUM OBJECT
  - 4 REMOVE TAPE FROM MEDIUM OBJECT
  - 5 DISPOSE OF WASTE TO TRASH CAN OUTSIDE BUILDING

PT-652 = .03621 HRS PER OBJECT

PT-653

MASK WALL, TRIM, DOOR, WINDOW PERIMETER, ETC

## NO WORK UNIT DESCRIPTION

- =====
- 1 PICK UP SUPPLIES AND/OR EQUIPMENT AND LAY ASIDE
  - 2 WALK TO MASK WALL, TRIM OR OBJECT
  - 3 APPLY TAPE TO WALL
  - 4 REMOVE TAPE FROM WALL
  - 5 DISPOSE OF WASTE TO TRASH CAN OUTSIDE BUILDING

PT-653 = .00393 HRS PER LIN FT

PT-673

V-OUT OLD CRACK AND APPLY PLASTER OR SPACKLE

## NO WORK UNIT DESCRIPTION

- =====
- 1 SET UP AND HANDLING TIME
  - 2 V-OUT CRACK AND APPLY PLASTER OR SPACKLE

PT-673 = .03370 HRS PER LIN FT

PT-677

APPLY TAPE &amp; 3 COATS OF COMPOUND TO PLASTER BOARD SEAM

## NO WORK UNIT DESCRIPTION

- =====
- 1 SET UP AND HANDLING TIME
  - 2 APPLY THREE COATS OF COMPOUND AND TAPE

PT-677 = .02090 HRS PER SQ FT

PT-678

APPLY TAPE &amp; COMPOUND TO PLASTER BOARD SEAM, INCLUDING SAND &amp; WIPE AFTER 3RD COAT OF COMPOUND

## NO WORK UNIT DESCRIPTION

- =====
- 1 SET UP AND HANDLING TIME
  - 2 APPLY THREE COATS OF COMPOUND AND TAPE
  - 3 SAND PLASTER BOARD SEAM
  - 4 WIPE PLASTER BOARD SEAM

PT-678 = .02137 HRS PER SQ FT



PT-680

FILL NAIL HOLES AND CRACKS IN WOOD SURFACES  
-PER SQ FT

## NO WORK UNIT DESCRIPTION

- =====
- 1 APPLY FILLER TO NAIL HOLES AND CRACKS IN WOOD SURFACE
  - 2 BEND AND ARISE WHILE APPLYING FILLER
  - 3 WALK TO NEXT AREA
  - 4 IN-PROCESS SET UP AND HANDLING TIME

PT-680 = .00378 HRS PER SQ FT

PT-681

FILL NAIL HOLES AND CRACKS IN WOOD BOARDS  
-PER LIN FT

## NO WORK UNIT DESCRIPTION

- =====
- 1 APPLY FILLER TO NAIL HOLES AND CRACKS IN WOOD BOARDS
  - 2 BEND AND ARISE WHILE APPLYING FILLER
  - 3 WALK TO NEXT AREA
  - 4 IN-PROCESS SET UP AND HANDLING TIME

PT-681 = .00393 HRS PER LIN FT

PT-684

APPLY CAULKING WITH HAND OPERATED CARTRIDGE GUN

## NO WORK UNIT DESCRIPTION

- =====
- 1 OBTAIN & ASIDE CAULKING GUN, CARTRIDGE AND KNIFE
  - 2 REMOVE OLD, PREPARE & LOAD NEW CARTRIDGE IN GUN
  - 3 APPLY CAULKING WITH HAND OPERATED CARTRIDGE GUN

PT-684 = .00241 HRS PER LIN FT

PT-685

REMOVE OLD & APPLY NEW CAULKING WITH HAND OPERATED CARTRIDGE GUN

## NO WORK UNIT DESCRIPTION

- =====
- 1 OBTAIN & ASIDE TOOL FOR REMOVING OLD CHALKING
  - 2 REMOVE DETERIORATED CAULKING WITH HAND TOOL
  - 3 CAULK CRACK WITH HAND ACTIVATED CAULKING GUN

PT-685 = .00537 HRS PER LIN FT

PT-701

LAY OUT FOR TRAFFIC STRIPE, CROSSWALK, OR PARKING STALL-SINGLE LINE

## NO WORK UNIT DESCRIPTION

- =====
- 1 LAY OUT FOR PAVEMENT STRIPING

PT-701 = .00141 HRS PER LIN FT

PT-711

SPRAY TRAFFIC STRIPE--SINGLE LINE  
-PUSH TYPE STRIPING MACHINE

## NO WORK UNIT DESCRIPTION

- =====
- 1 SPRAY TRAFFIC STRIPE

PT-711 = .00096 HRS PER LIN FT

PT-715

SPRAY CROSSWALK STRIPE--THREE AND ONE-HALF(3.5) FT WIDE WITH CROSSHATCHING AT TWO (2) FOOT INTERVALS  
-PUSH TYPE STRIPING MACHINE

## NO WORK UNIT DESCRIPTION

- =====
- 1 SPRAY CROSSWALK STRIPES

PT-715 = .00876 HRS PER LIN FT

PT-716

SPRAY CROSSWALK STRIPE--THREE AND ONE-HALF(3.5) FT WIDE WITH CROSSHATCHING AT FOUR(4) FOOT INTERVALS  
-PUSH TYPE STRIPING MACHINE

## NO WORK UNIT DESCRIPTION

- =====
- 1 SPRAY CROSSWALK STRIPE

PT-716 = .00518 HRS PER LIN FT

PT-717

SPRAY CROSSWALK STRIPE--SIX (6) FEET WIDE WITH CROSSHATCHING AT FOUR (4) FOOT INTERVALS  
-PUSH TYPE STRIPING MACHINE

## NO WORK UNIT DESCRIPTION

- =====
- 1 SPRAY CROSSWALK STRIPE

PT-717 = .00486 HRS PER LIN FT

## PT-725

SPRAY STRIPES FOR "CLASS 2" PARKING STALL  
--PUSH TYPE STRIPING MACHINE

## NO WORK UNIT DESCRIPTION

=====

1 SPRAY STRIPES FOR PARKING STALL

PT-725 = .02963 HRS PER STALL

## PT-781

SPRAY TRAFFIC STRIPE (SINGLE LINE)  
--SELF-PROPELLED MACHINE

## NO WORK UNIT DESCRIPTION

=====

1 SPRAY TRAFFIC STRIPE (SINGLE LINE)

PT-781 = 1.03472 HRS PER JOB

## PT-726

SPRAY STRIPES FOR "CLASS 3" PARKING STALL  
--PUSH TYPE STRIPING MACHINE

## NO WORK UNIT DESCRIPTION

=====

1 SPRAY STRIPE FOR PARKING STALL

PT-726 = .02072 HRS PER STALL

## PT-731

SPRAY TRAFFIC STRIPE--SINGLE LINE  
--SELF-PROPELLED MACHINE

## NO WORK UNIT DESCRIPTION

=====

1 SPRAY TRAFFIC STRIPE--SINGLE LINE  
--SELF-PROPELLED STRIPING MACHINE

PT-731 = .00010 HRS PER LIN FT

## PT-751

SPRAY STENCIL CHARACTER OR NUMBER ON PAVEMENT

## NO WORK UNIT DESCRIPTION

=====

1 INITIAL SPRAY OR RE-SPRAY STENCIL NUMERAL  
2 WALK DURING PERFORMANCE OF OPERATION

PT-751 = .00915 HRS PER CHARACTER

## PT-760

PLACEMENT AND REMOVAL OF TRAFFIC MARKERS

## NO WORK UNIT DESCRIPTION

=====

1 PLACE AND PICK UP TRAFFIC MARKER

PT-760 = .00979 HRS PER MARKER

LANTDIV NORVA 9-4122/1 (REV 3-88)

Submitted by	_____	Installation	_____
Date	_____	Address	_____
Phone	_____	ATTN/Code	_____
	_____	City, State, Zip	_____

**EPS FEEDBACK SHEET**

The following questions are designed to assist the NAVFAC Industrial Engineering Center in its continuing effort to improve the overall quality of standard data presented in the EPS handbooks. You may phone us at (804) 444-9831 commercial or 564-9831 autovon.

1. List frequently recurring tasks which are not presently covered. Please attach any drawings or added descriptions:

CRAFT HANDBOOK	TASK DESCRIPTION
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

2. List task for which, in your judgment, craft time is inaccurate - indicate whether time is too high or too low:

CRAFT HANDBOOK	TASK DESCRIPTION
_____	_____
_____	_____
_____	_____

3. General comments (tasks presently covered which are never. used, format of data presentation, PE News letter, etc.):

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LANTDIV NORVA 9-4122/1 (REV 3-88)

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