

CONTRACTOR'S SUBMITTAL TRANSMITTAL
 LANTDIV NORFOLK 4-4355/3 (Rev. 11-80)

FROM CONTRACTOR
 Trader Construction Company
 TO
 Lockwood Greene/Six Associates

CONTRACT NO. 81-C-1766
 TRANSMITTAL NO. 55
 DATE 3 NOV 83
 PROJECT TITLE AND LOCATION
 Public Works & Helipad
 MCB
 Camp Lejeune, NC

CONTRACTOR USE ONLY

REVIEWER USE ONLY

*List only one specification division per form.
 List only one of the following categories on each transmittal form,
 and indicate which is being submitted

****ACTION CODES**
 A-Approved
 D-Disapproved
 AN-Approved as noted
 RA-Receipt acknowledged.
 C-Comments
 R-Resubmit

- Contractor Approved
 OICC Approval
 Deviation/Substitution For OICC Approval

ITEM NO.	PROJ. SPEC. SECT. & PARA. and/or PROJ. DWG. NO.	ITEM IDENTIFICATION (Type, size, model no., Mfg. name, dwg. or brochure number)	NO. OF COPIES	ACTION CODES	REVIEWER'S INITIALS CODE AND DATE
155	15400	Plumbing			
	1.4.1	Water Closets, Kingston, Kohler	7	AN	SM 11/9/83 ↓
		HD Duraloy Seats	7	AN	
		Flush Valves	7	AN	
		Horizontal Fittings	7	A	
		Urinals, Kohler	7	AN	

CONTRACTOR'S COMMENTS

ROUTING ORDER

1	40	INT	2
2			
3			
4			
5			
6			
7			
8			

10 02

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC
 ROICC, Cherry Point, NC

DATE RECEIVED BY REVIEWER 11/7/83 FROM (Reviewer) Six Associates, Inc.

CONTRACTOR REPRESENTATIVE (Signature) [Signature]
 TO Trader Construction Co.

Submittals are returned with action indicated. Approval of an item does not include approval of any deviation from the contract requirements unless the contractor calls attention to and supports the deviation.
 Submittals are forwarded to LANTDIV with A-E recommendations indicated in REVIEWER USE ONLY Section and in comments below on ONE COPY of the transmittal form.

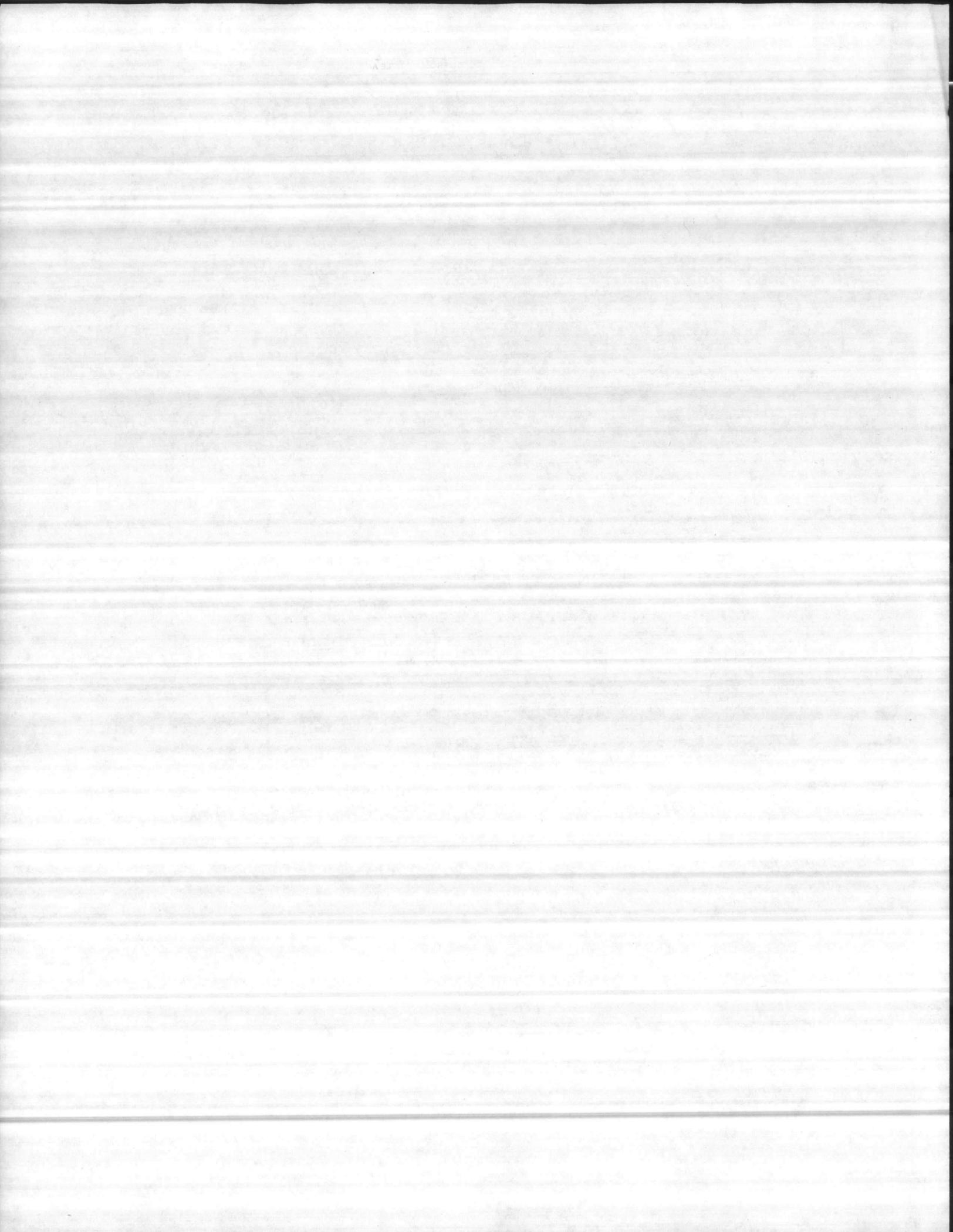
REVIEWER'S COMMENTS

Copy - Fried 11-01-83

COPIES TO:
 ROICC (2)
 LANTDIV (1)
 A-E (1)

DATE 11/9/83

SIGNATURE Scott J. Miller



CONTRACTOR'S SUBMITTAL TRANSMITTAL
 LANTDIV NORFOLK 4-4355/3 (Rev. 11-80)

CONTRACT NO. 81-C-1766 TRANSMITTAL NO. 55 DATE 3 NOV 83

FROM CONTRACTOR
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155	15400 1.4.1	Urinals, Kohler, Sloan Flush Valve	7	AN	SM 11/9/83
		" Supports	7	A	
		Lavatory, Hudson	7	A	
		" Faucets	7	A	
		" Traps	7	A	
		" Angle Sweet Valve	7	A	

CONTRACTOR'S COMMENTS

40

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC

CONTRACTOR REPRESENTATIVE (Signature) *John Mayo*

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REVIEWER'S COMMENTS

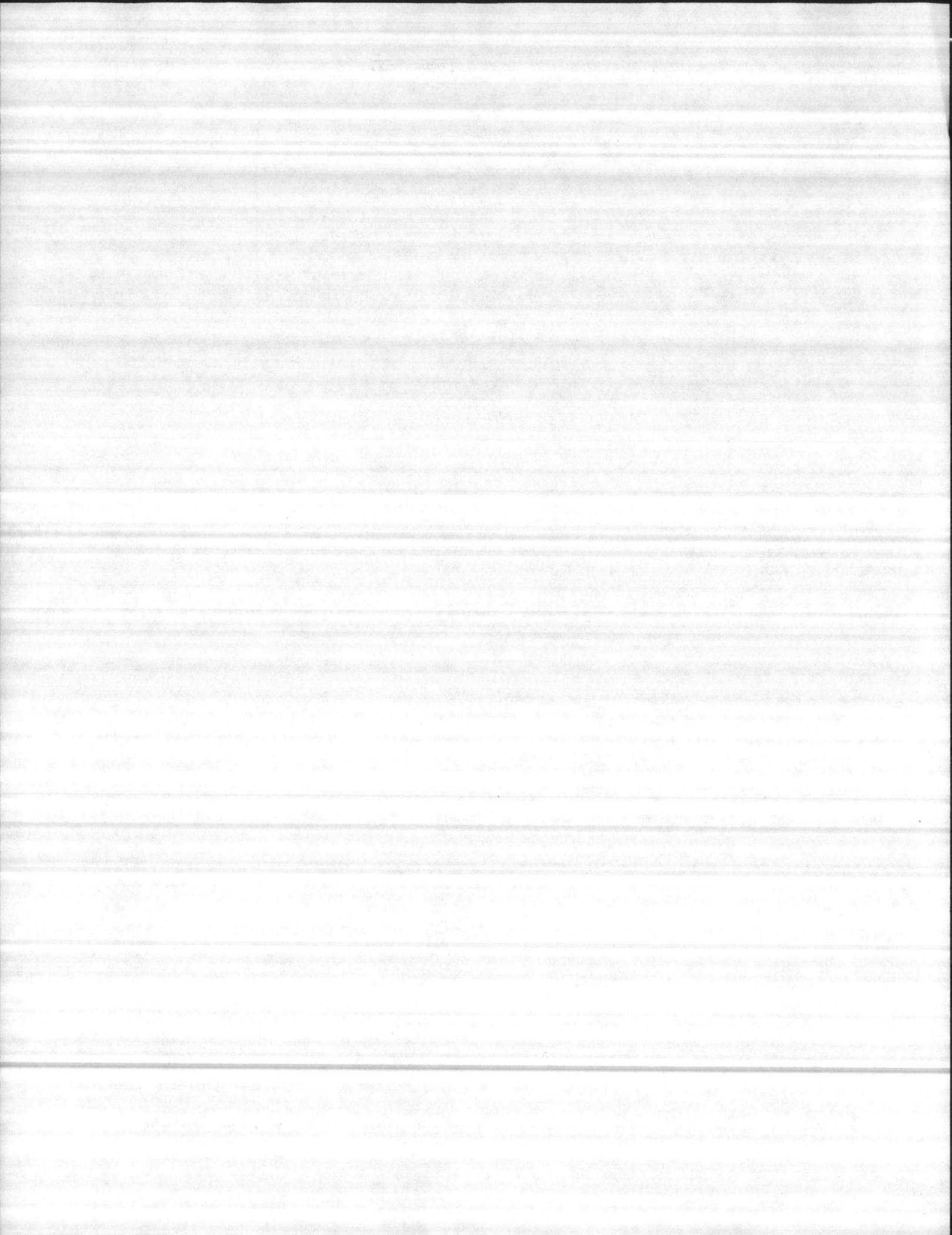
02

Copy filed 11-01-83

COPIES TO: ROICC (2), LANTDIV (1), A-E (1)

DATE 11/9/83

SIGNATURE *Scott G. Miller*



CONTRACTOR'S SUBMITTAL TRANSMITTAL
 LANTDIV NORFOLK 4-4355/3 (Rev. 11-80)

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155	15400 1.4.1	Lavatory, Supports	7	A	DM 11/9/83
		Mop Sink & Fittings	7	AN	↓
		Kitchen Sink, Elkay	7	A	
		Sink Faucets & Strainers, Traps	7	A	
		Electric Water Cooler, Halsey Taylor	7	A	
		Shower Floor, Williams	7	A	

CONTRACTOR'S COMMENTS

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC

CONTRACTOR REPRESENTATIVE (Signature)

John Mayo

DATE RECEIVED BY REVIEWER
11/7/83

FROM (Reviewer)
Six Associates, Inc.

TO
Trader Construction Co.

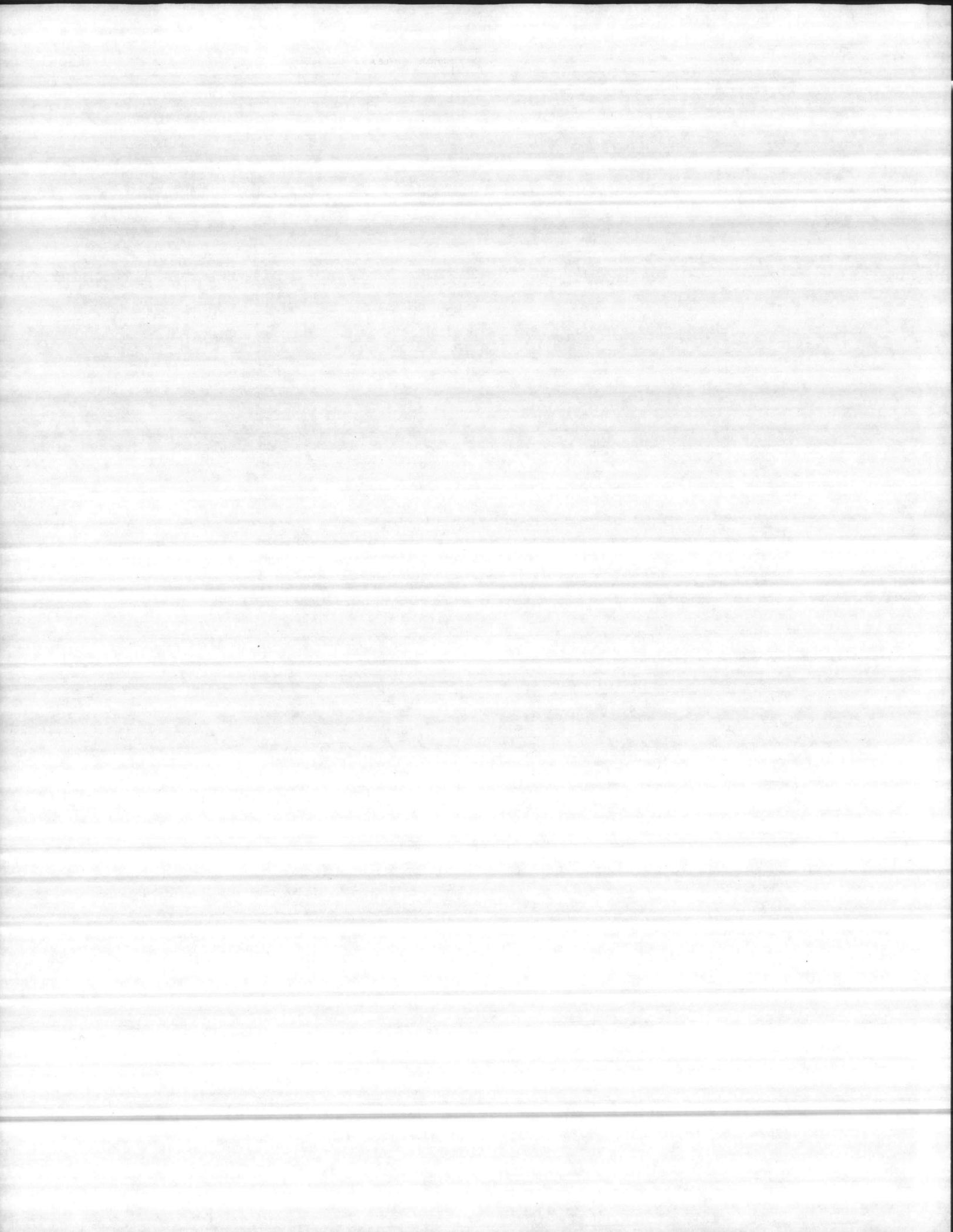
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 LANTDIV (1)
 A-E (1)

DATE
11/9/83

SIGNATURE
Scott J. Miller



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Lockwood Greene/Six Associates

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Public Works & Helipad
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155	15400 1.4.1	Shower, Fitting, Temptrol	7	AN	SM 11/9/83
		Valves, Gate	7	A	↓
		" Check	7	A	
		" Globe & Angle	7	A	
		" Ball	7	AN	
		Screwed Strainers	7	A	

CONTRACTOR'S COMMENTS

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC _____

CONTRACTOR REPRESENTATIVE (Signature) *John Mayo*

DATE RECEIVED BY REVIEWER: 11/7-83

FROM (Reviewer): Six Associates, Inc.

TO: Trader Construction Co.

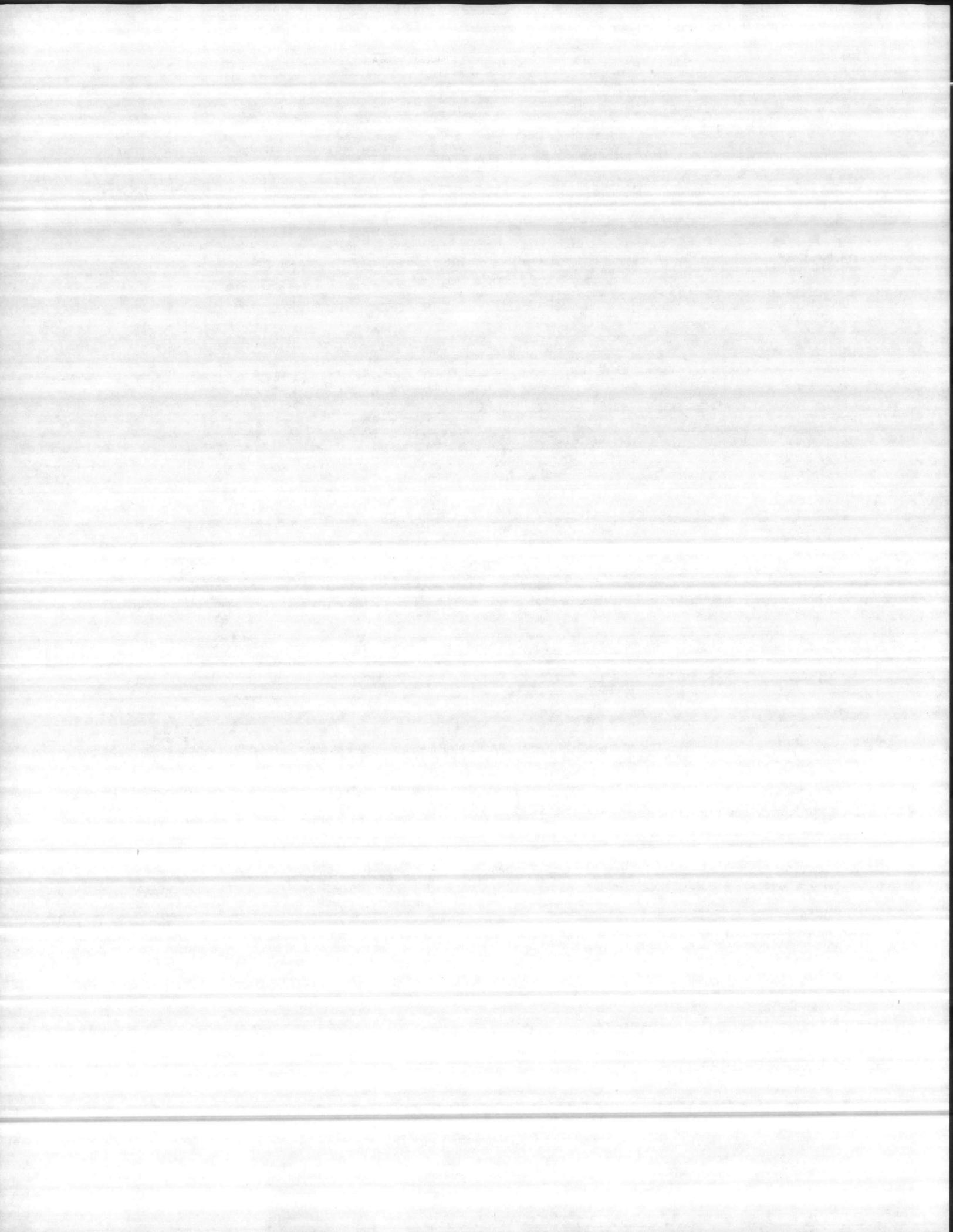
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COPIES TO:
 ROICC (2)
 LANTDIV (1)
 A-E (1)

DATE: 11/9/83

SIGNATURE: *Scott J. Miller*



FROM CONTRACTOR
Trader Construction Company

TO
Lockwood Greene/Six Associates

PROJECT TITLE AND LOCATION
Public Works & Helipad
MCB
Camp Lejeune, NC

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155	15460 1.4.1	Non-Freeze Wall Hydrant	7	A	SM 11/9/83
		Wall Clean Out	7	A	↓
		Floor Drains	7	A	
		Shower Drains	7	A	
		Floor Clean Out	7	A	
		Domestic Water Heater	7	AN	

CONTRACTOR'S COMMENTS

COPY OF TRANSMITTAL AND SUBMITTALS TO ROICC

CONTRACTOR REPRESENTATIVE (Signature)

John Miller

DATE RECEIVED BY REVIEWER

FROM (Reviewer)

TO

11/7/83

Six Associates, Inc.

Trader Construction Co.

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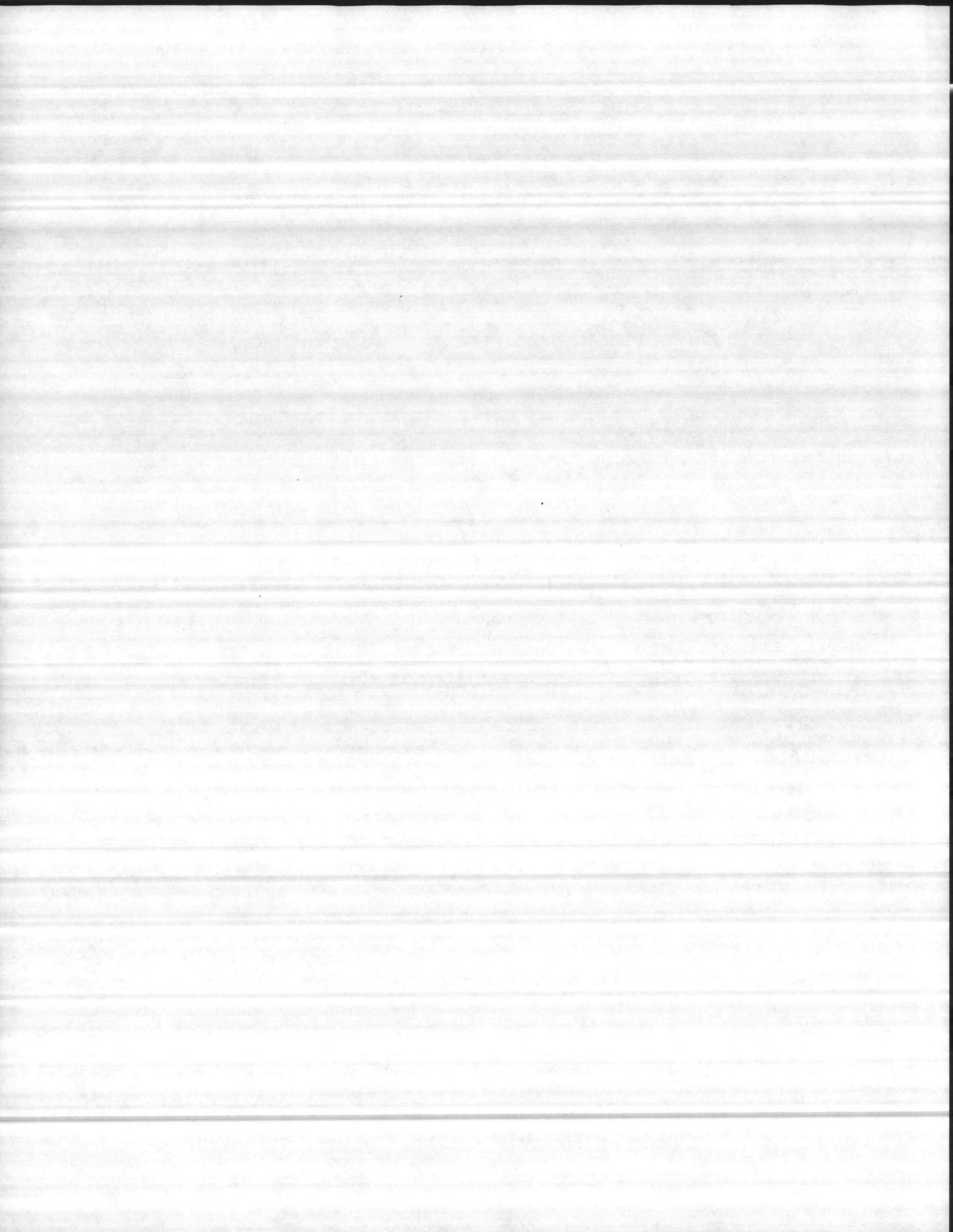
COPIES TO:
ROICC (2)
LANTDIV (1)
A-E (1)

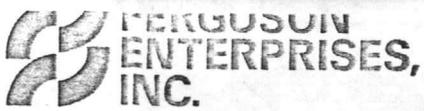
DATE

11/9/83

SIGNATURE

Scott J. Miller





825 S. 17th Street
 Wilmington, NC 28401
 Phone (919) 343-1510
 Reply to: P.O. Box 3037
 Wilmington, NC 28406

HUMPHREY HEATING AND ROOFING, Inc.

Public Works Building, Helipad and Land

NRMC, Camp Lejeune, N.C.

ATLANTIC DIVISION
 NAVAL FACILITIES ENGINEERING COMMAND
 NORFOLK, VIRGINIA 23511

APPROVED _____
 APPROVED AS NOTED _____
 DISAPPROVED _____

SUBJECT TO THE REQUIREMENTS OF
 CONTRACT NO. N62470-81-C-1766

APPROVAL OF A SUBMITTAL DOES NOT INCLUDE
 APPROVAL OF ANY DEVIATION FROM THE CON-
 TRACT REQUIREMENTS UNLESS THE CONTRACTOR
 CALLS ATTENTION TO AND SUPPORTS THE DEVI-
 ATION... THE CONTRACTOR SHALL BE RESPONSIBLE
 FOR PROVIDING PROPER PHYSICAL DIMENSIONS
 & WEIGHTS, COORDINATION OF TRADES, ETC., AS
 REQUIRED.

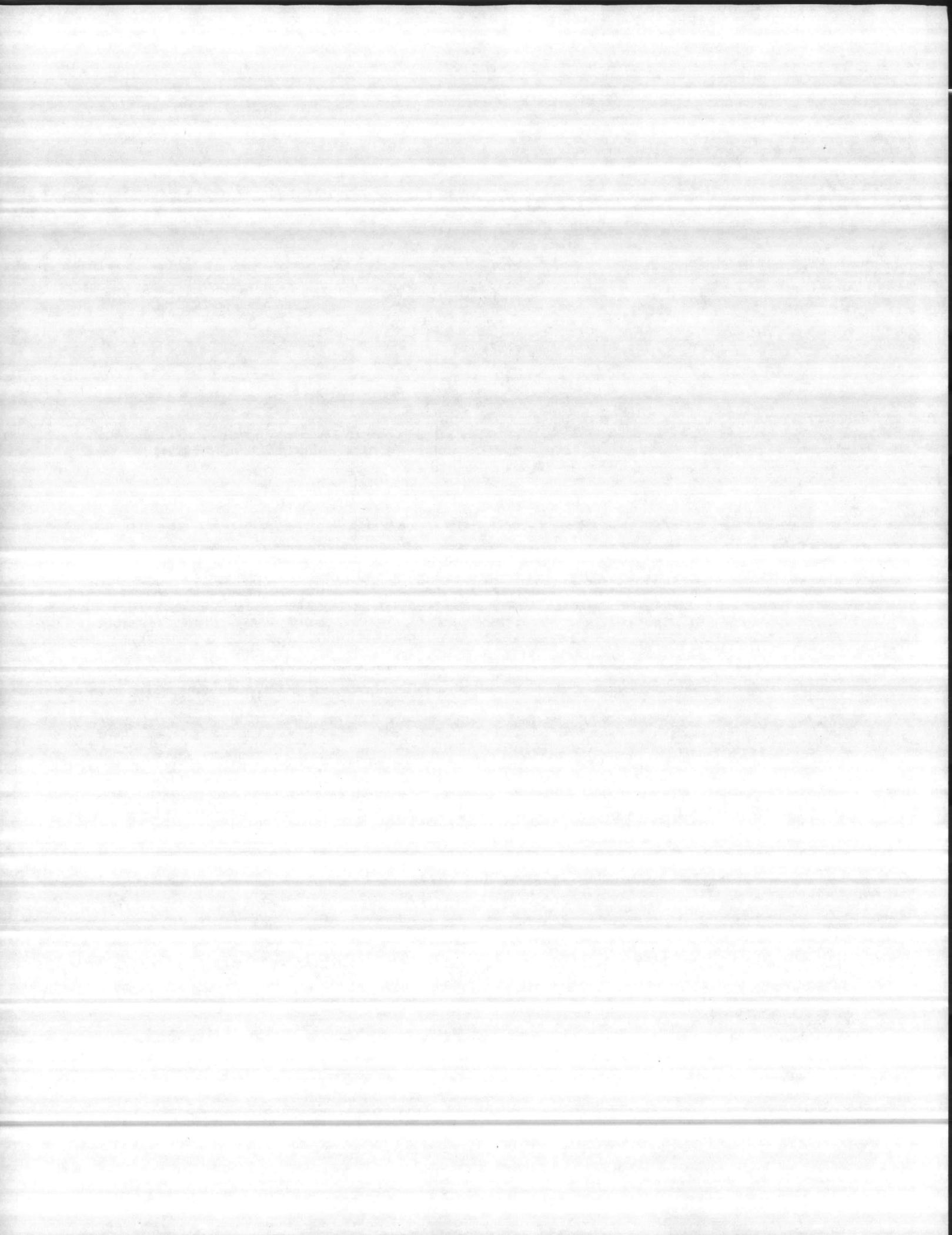
REVIEWER S. Miller DATE 11/9/83

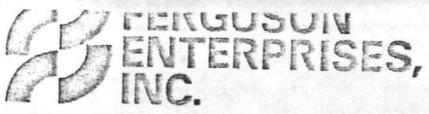
FOR OFFICER IN CHARGE OF CONSTRUCTION

APPROVED SUBJECT TO APPROVAL BY ARCHITECT.
 SUB-CONTRACTOR AND/OR SUPPLIER WILL BE
 RESPONSIBLE FOR ALL DIMENSIONS AND QUANTITIES

HUMPHREY'S HEATING & ROOFING
 2423 N. MARINE BLVD.
 JACKSONVILLE, N. C.

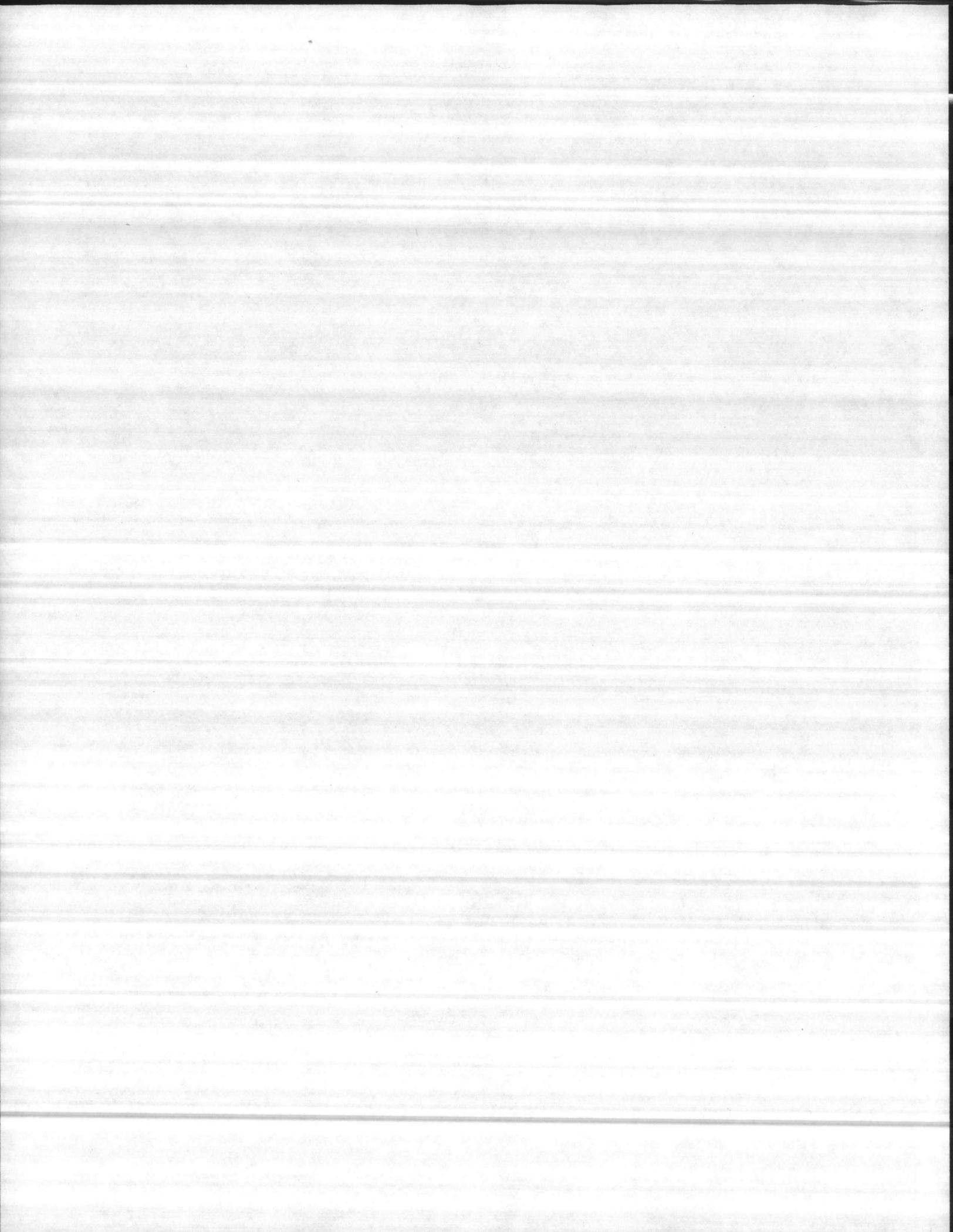
DATE 10/17 BY BCox





825 S 17th Street
Wilmington, NC 28401
Phone (919) 343-1510
Reply to P.O. Box 3037
Wilmington, NC 28406

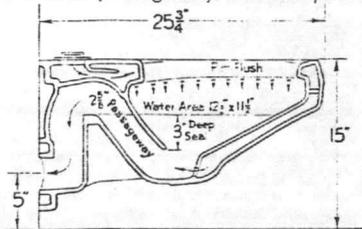
2.4.1 Flushometer Type Water Closets (P-1)



KINGSTON WATER-GUARD™ TOILET

VITREOUS CHINA

- Water-saving 3-gallon flush when installed with specified flush valve.
- Elongated bowl, siphon jet flushing, 2-5/8" passageway, 1-1/2" top or rear spud.

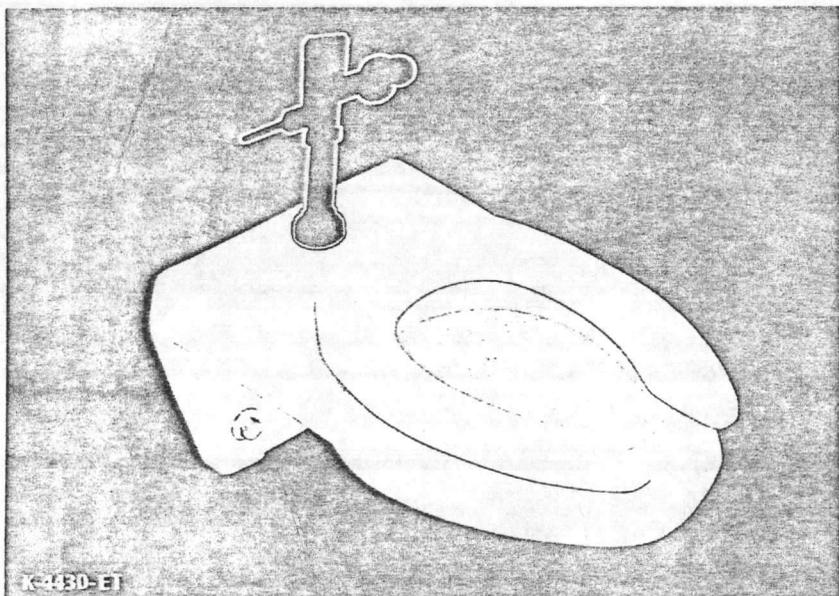


KINGSTON WATER-GUARD K-4430-ET/K-4432-ER

"It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into Contract Number DDA-70-81-C-1766 is in compliance with the Contract drawings and specifications, can be installed in the allocated spaces, and is submitted Government approval.

Certified by Am

Date 1 Nov 83 "

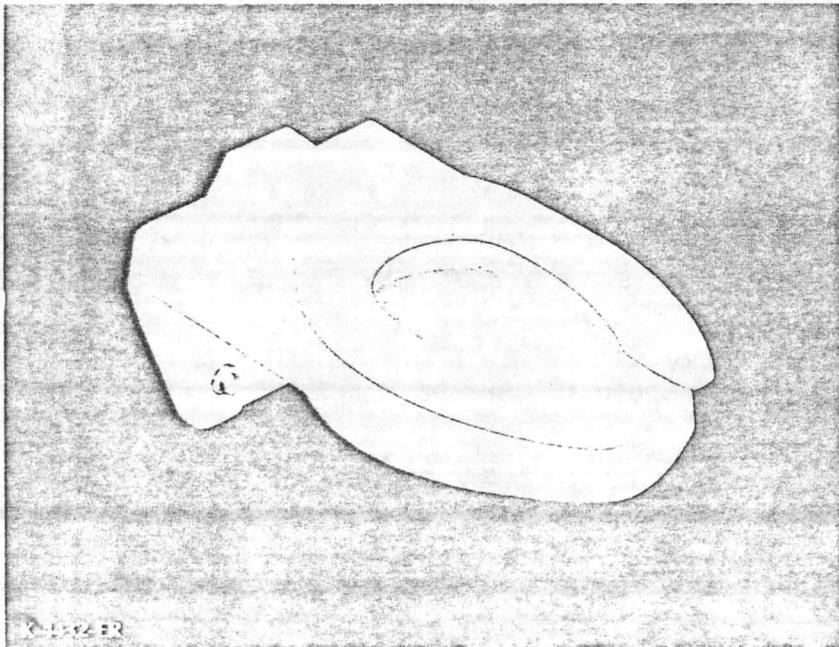


K-4430-ET Kingston Water-Guard toilet. Vitreous china siphon jet elongated toilet with 2 5/8" (67 mm) passageway and 1 1/2" top spud. ✓

Designed to flush with 3 gallons of water when installed with a specified 3 gallon flush valve — approximately 36% water-saving over conventional siphon jet flush valve toilets.

Recommended Seat
K-4670-C Lustra solid plastic white seat with check hinge (K-4671-C black).
Suggested flush valve — Sloan 110.3

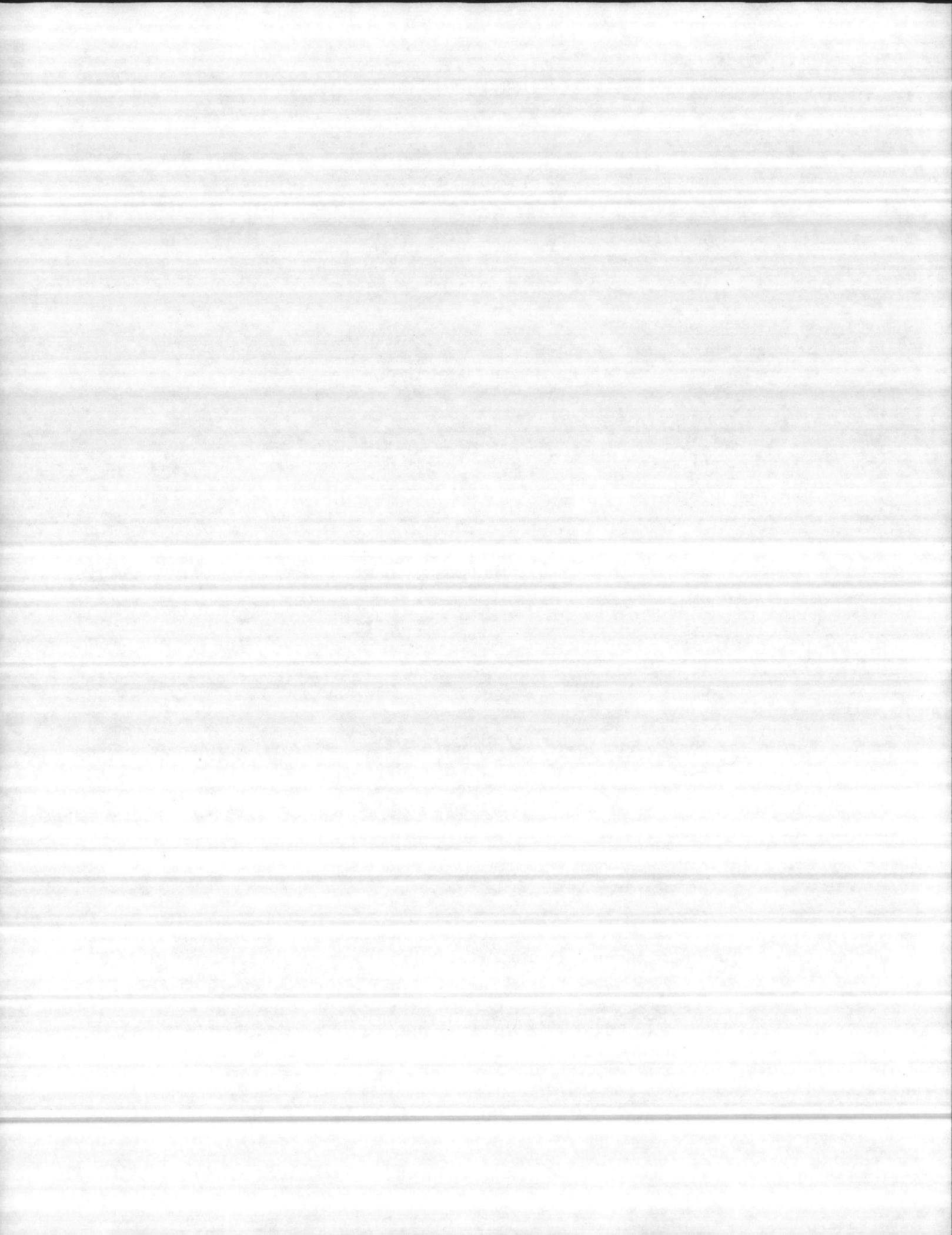
SUBMIT MANUFAC. CERTIFICATION OF COMPLIANCE OF 3 GAL. FLUSH.



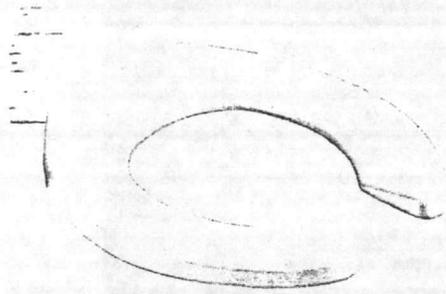
K-4432-ER Kingston Water-Guard toilet. Vitreous china siphon jet elongated toilet with 2 5/8" (67 mm) passageway and 1 1/2" rear spud.

Recommended Seat
K-4670-C Lustra solid plastic white seat with check hinge (K-4671-C black).
Suggested flush valve — Sloan 143.3.

Kingston toilet requires a supporting chair carrier manufactured by others.



SOLID PLASTIC SPECIFICATION SEATS



No. 955-C
Regular Bowl

955-C/1955-C Series Heavy Duty Duraloy™ Seats

*Super-strong, chemical resistant
to match the life of fixtures.*

SPECIFICATIONS:

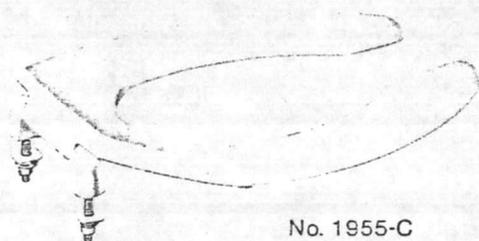
Seats shall be No. _____ as manufactured by Bemis Manufacturing Co. Contoured seat shall be heavy duty and injection molded of Duraloy™ with open front less cover. Large, built-in bumpers shall be color-matched to seat. Color to be BLACK (Specify black or white.)

REGULAR BOWL

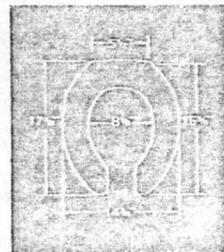
- No. 955-C Open front less cover, check hinge
- No. 955-SSC Open front less cover, self-sustaining check hinge

ELONGATED BOWL

- No. 1955-C Open front less cover, check hinge
- No. 1955-SSC Open front less cover, self-sustaining check hinge



No. 1955-C
Elongated Bowl



SQUARE BACK/
REGULAR BOWL



SQUARE BACK/
ELONGATED BOWL



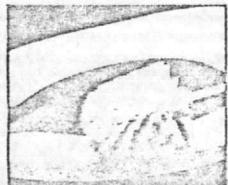
Impervious to harsh
cleaning agents



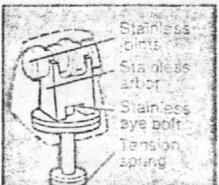
Permanent, built-in
bumpers never need
replacement



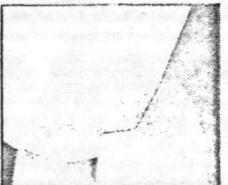
Raised back for
complete cleaning
access



abrasive scrubbing



Stainless
hinge
Stainless
screw
Stainless
eye bolt
Tension
spring
self-sustaining hinges
in both posts



Durable, external
check prevents
damage to flush valve

It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into

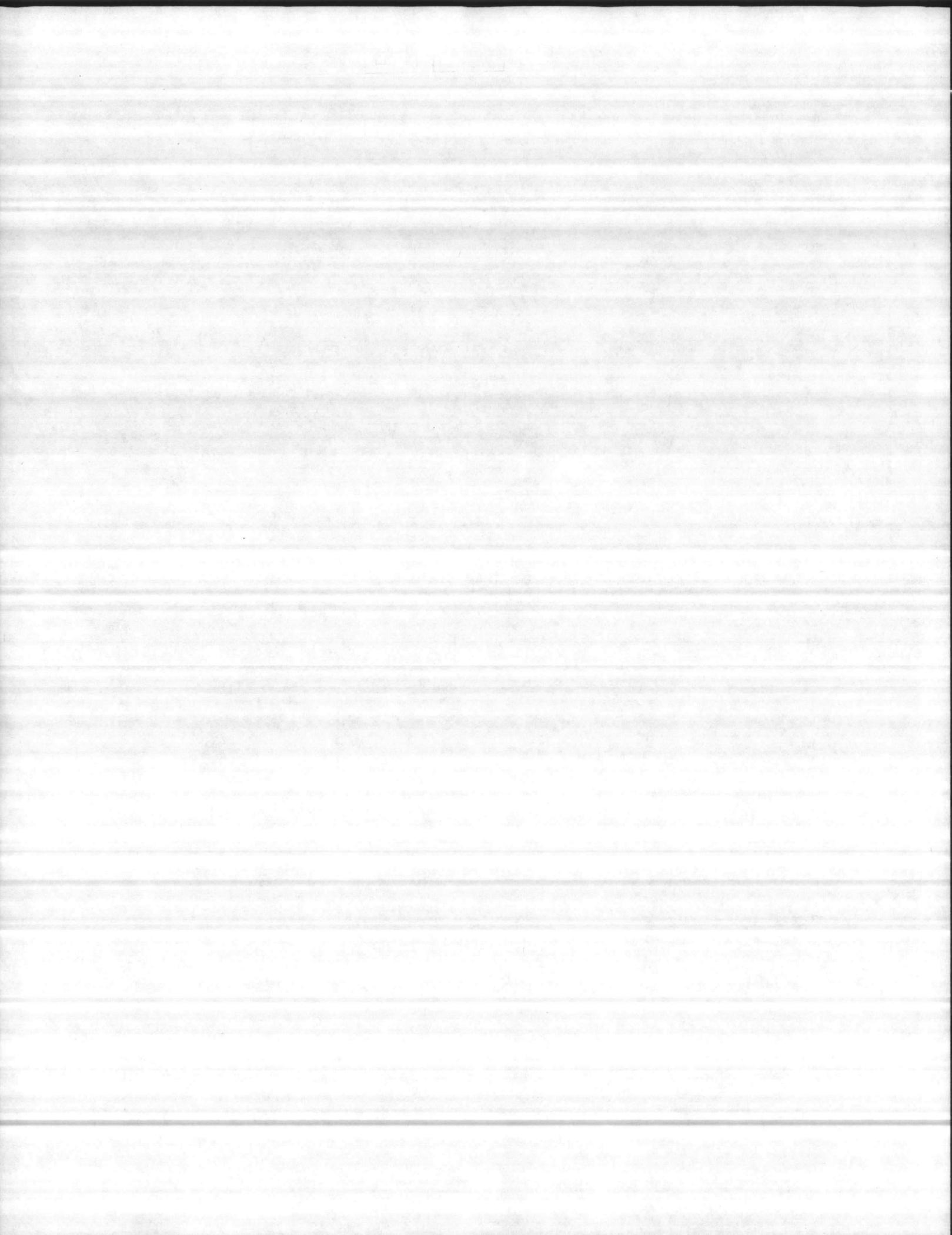
Contract Number MAA77-87-C-1766, is in compliance with the Contract drawings and specifications, can be installed in the allocated space, and is submitted Government approval.

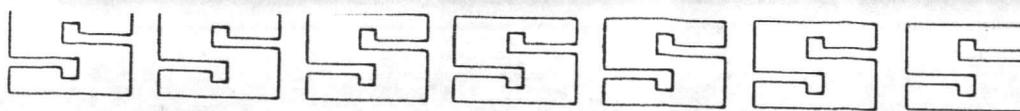
Certified by Aue

Date 1 Nov 83



BEMIS MANUFACTURING COMPANY
Sheboygan Falls, WI 53085
414-467-4621

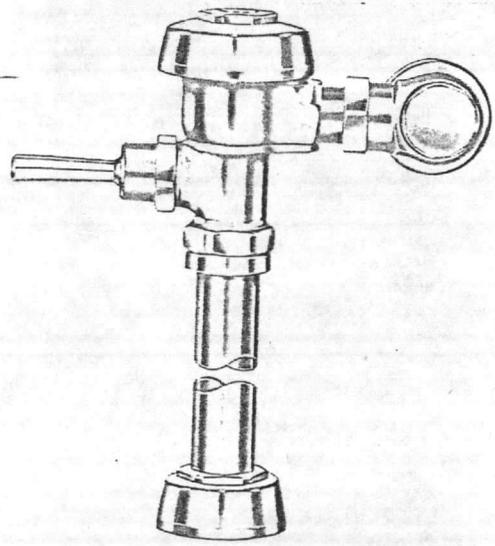




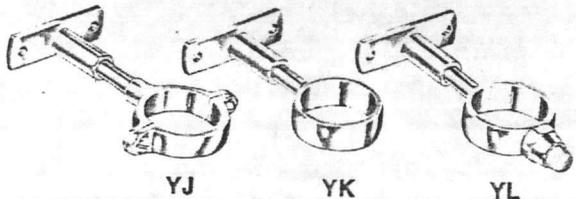
SLOAN
Flush Valves

ROYAL 115-3
CODE NUMBER 3010300

Quiet Exposed Closet Flush Valve, Chrome Plated, metal oscillating non-hold-open handle, 1-inch I.P.S. screw driver Bak-Chek angle stop with protective cap, adjustable tailpiece, vacuum breaker flush connection and spud coupling for 1½-inch top spud, wall and spud flanges.



NOTE: Specify pipe supports if desired. See page 127.



ORDERING PROCEDURE

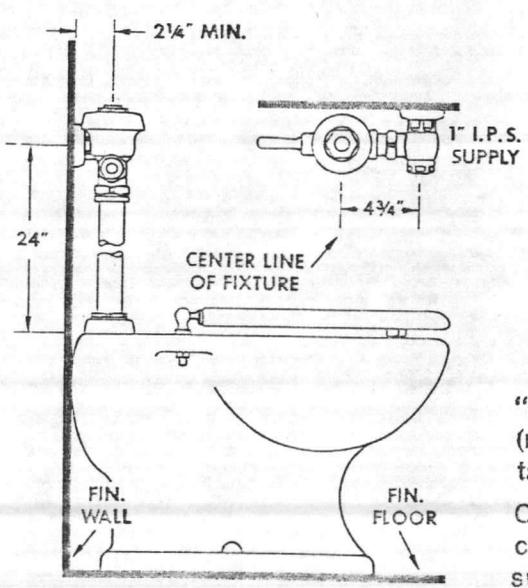
- a Name of valve—Royal, Crown or Naval.
- b Installation number—115.
- c Letters designating variations, if any. (Extend PAGE 127 for reference to variations).
Example—Royal 115YB
- d Convert to Code Number using table below:

To order Royal Flush Valves
Insert 1 in box 1.

To order Crown Flush Valves
Insert 2 in box 2.

To order Naval Flush Valves
Insert 4 in box 4.

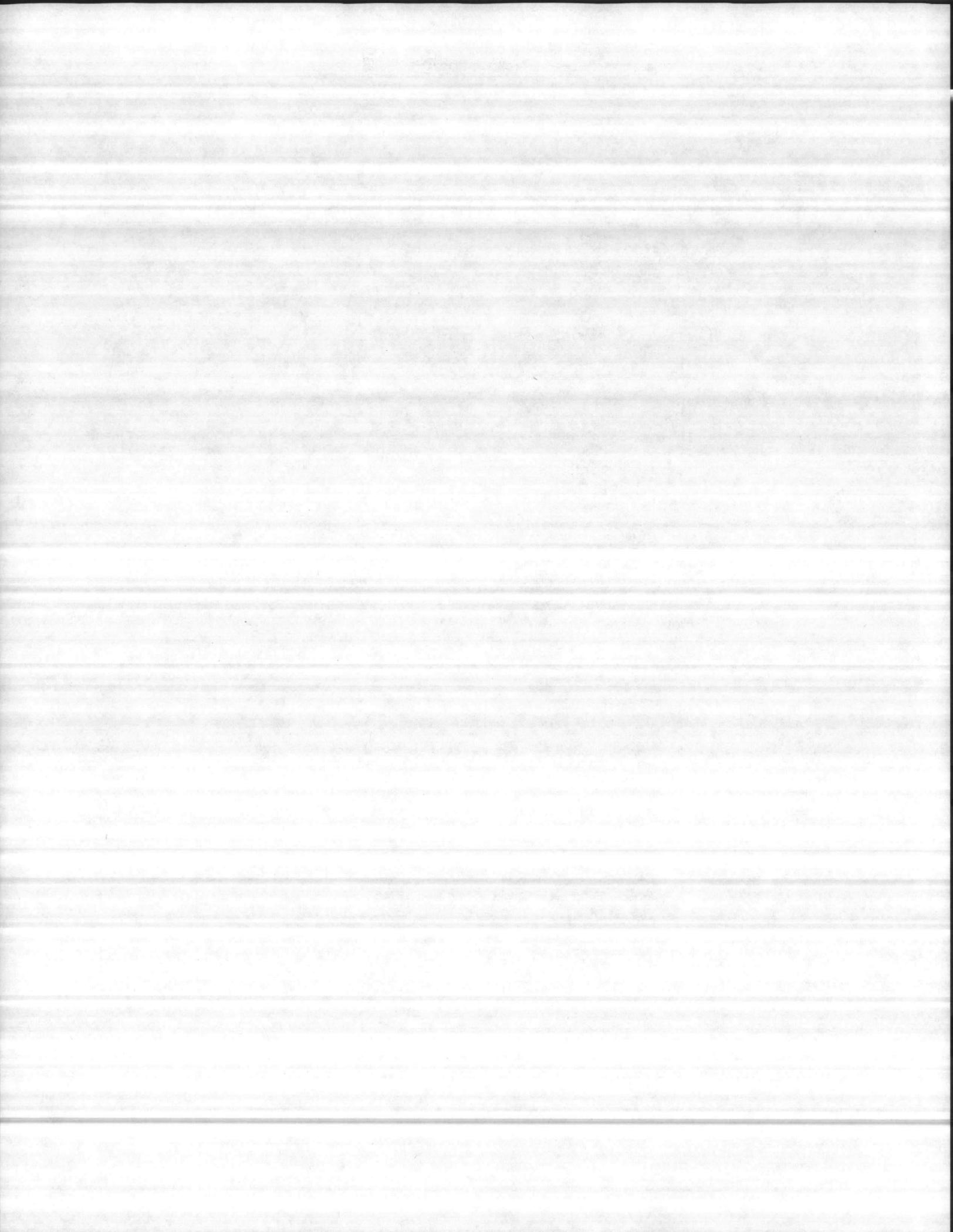
Example—Code number for
Royal 115YB is 3010311

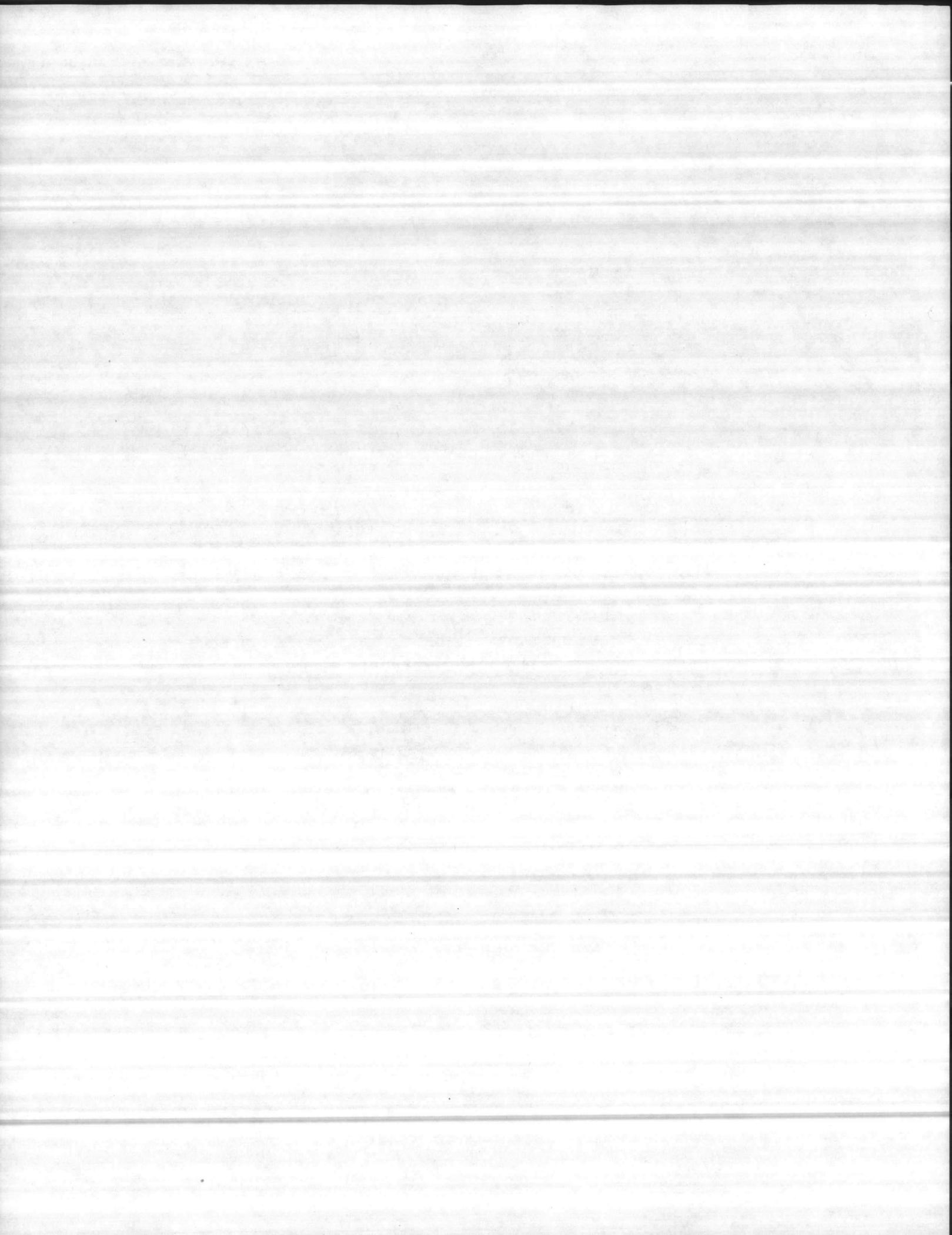


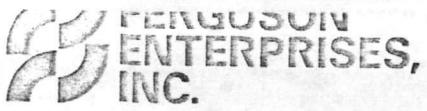
Installation No.	Variations	Code Number
115		30 0300
115	YA	30 0306
115	YI	30 0308
115	YB	30 0311
115	YBYA	30 0312
115	YBYI	30 0314
115	YBHL-3	30 0320
115	YC	30 0323
115	YCYA	30 0324
115	YCYI	30 0326
115	HL-3	30 0330

"It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into Control Number NSA 17285-C-176 is in compliance with the Contract drawings and specifications, and is submitted for Government approval.

Certified by SLOAN VALVE COMPANY *Franklin Park, Illinois*

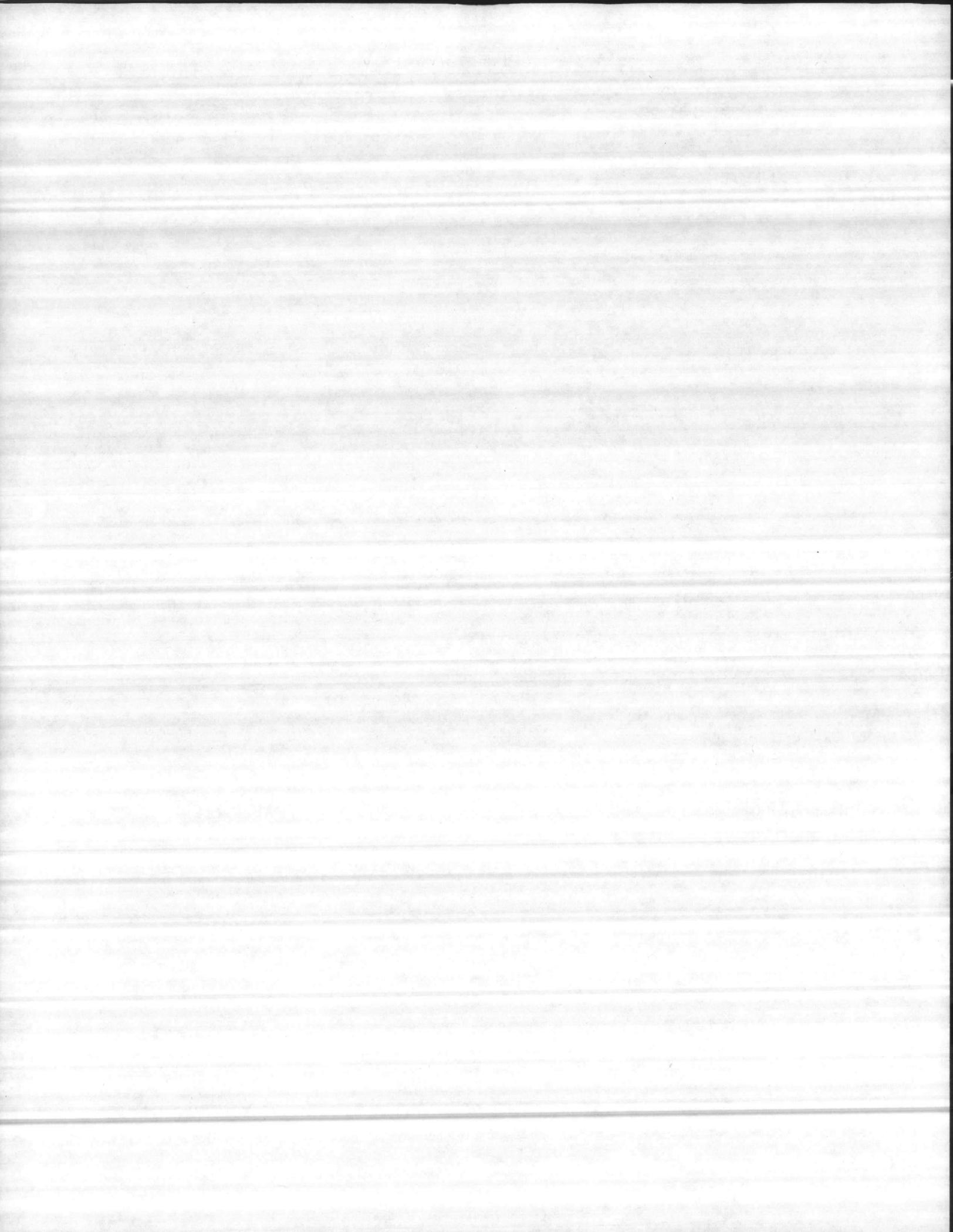


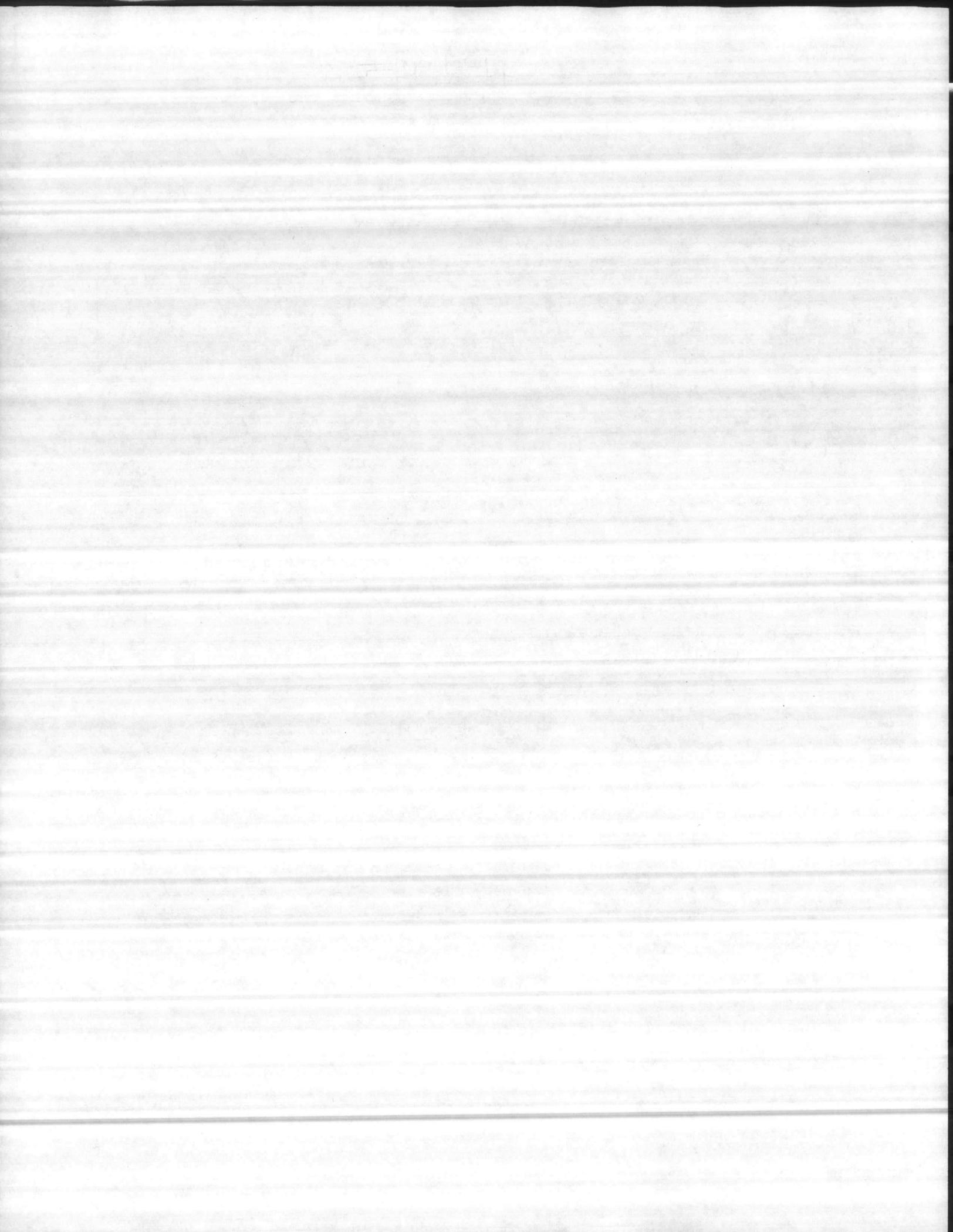


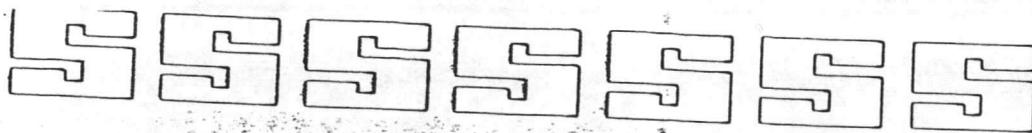


825 S 17th Street
Wilmington, NC 28401
Phone (919) 343-1510
Reply to P O Box 3037
Wilmington, NC 28406

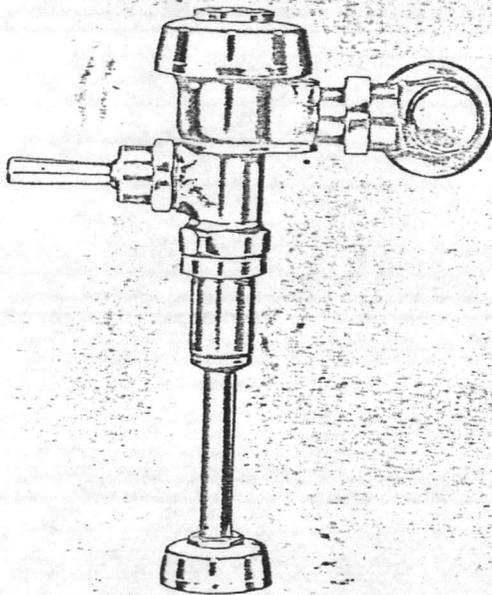
2.4.2. Flushometer Type Urinals (P-2)







SLOAN Flush Valves



ROYAL 186

CODE NUMBER 3012600

Quiet Exposed Urinal Flush Valve, Chrome Plated, metal oscillating non-hold-open handle, 3/4-inch I.P.S. screw driver Bak-Chek angle stop with protective cap, adjustable tailpiece, vacuum breaker flush connection and spud coupling for 3/4-inch top spud, wall and spud flanges.

NOTE: For Automatic Flushing see pages 76-78.

ORDERING PROCEDURE

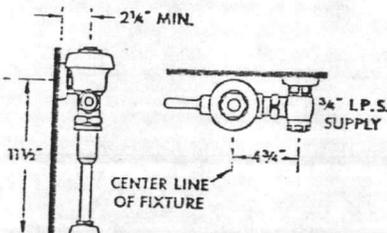
- a Name of valve—Royal, Crown or Naval.
- b Installation number—186.
- c Letters designating variations, if any. (Extend PAGE 127 for reference to variations).
Example—Royal 186YB
- d Convert to Code Number using table below:

To order Royal Flush Valves
Insert 1 in box 1.

To order Crown Flush Valves
Insert 2 in box 2.

To order Naval Flush Valves
Insert 4 in box 4.

Example—Code number for
Royal 186YB is 3012611



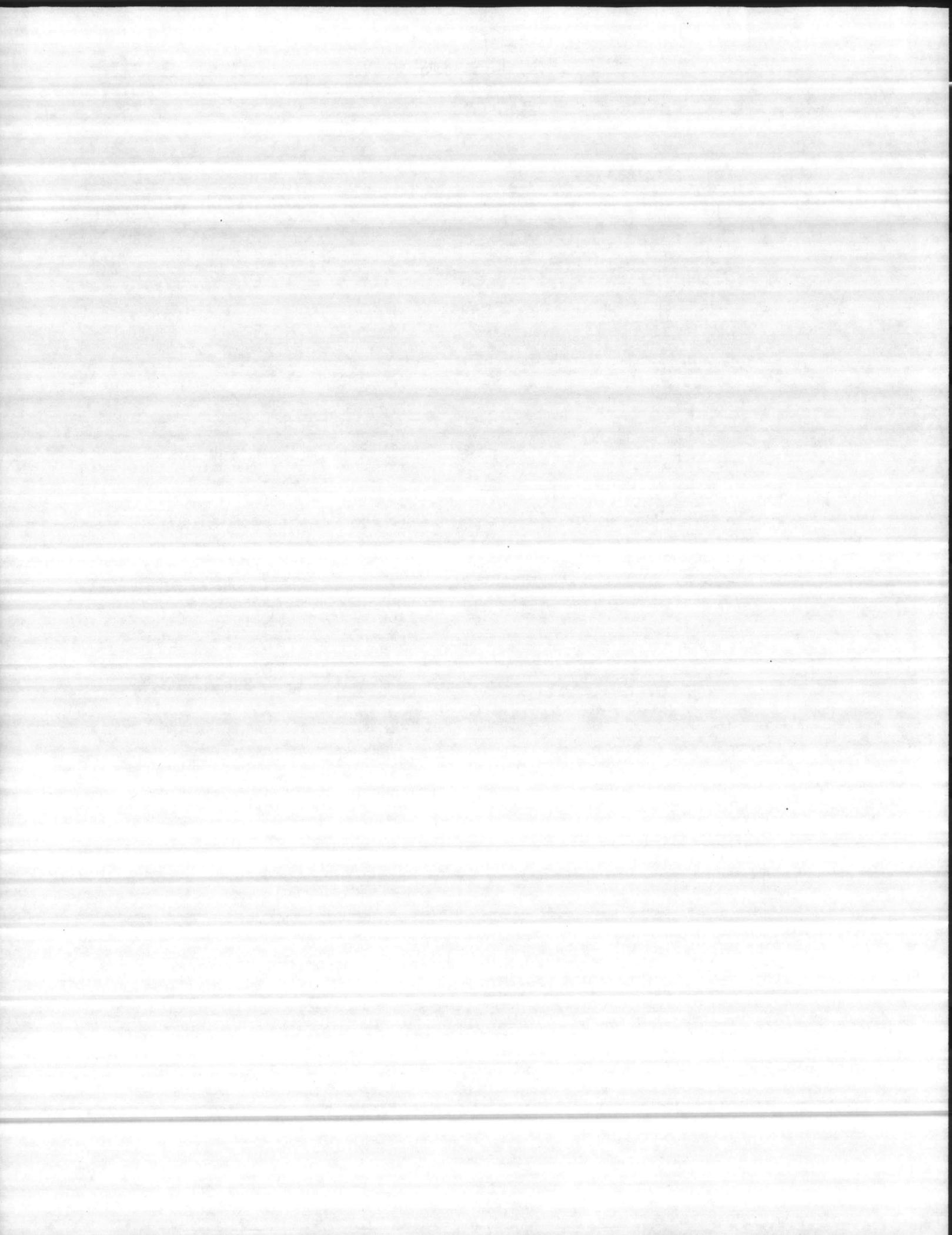
Installation No.	Variations	Code Number
186		30 - 2600
186	YB-3*	30 - 2611
186	YBH	30 - 2616
186	YBHL	30 - 2619
186	YBHL-3	30 - 2620
186	YC	30 - 2623
186	H	30 - 2628
186	HL	30 - 2629
186	HL-3	30 - 2630

It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into Contract Number W-172-81-C-1746 is in compliance with the Contract drawings and specifications, and is submitted for Government approval.

Certified by _____
Date 1 Nov 53

~~2.3 gallons per flush~~

2 GALS PER FLUSH
USE 186-11 ?



FIXTURE	VALVE NO.	CODE NO.	RI DIMENSION	GAL/FLUSH	SEAT BUMPER		TYPE OF FIXTURE
					OF L COVER	OF W COVER	
Water Closet	Royal 110	3010100	11 1/2"	4 - 4 1/2	YO	YG	The suffix -3 after any of these valve numbers will indicate that the valve is to deliver 3 gallons of water for a water saver closet. <u>Example:</u> Royal 110-3 Royal 115-3 (-3 No Additional Cost)
Ditto	Royal 113	3010200	16"	4 - 4 1/2	YO	YG	
"	Royal 115	3010300	24"	4 - 4 1/2	YI	YN	
"	Royal 116	3010400	27"	4 - 4 1/2	YI	YN	
"	Royal 310	3013600	Pedal Oper	4 - 4 1/2	YI	YN	
Service Sink	Royal 117	3010500	24"	5 - 5 1/2	--	--	
Final	Royal 180	3012400	11 1/2"	3 - 3 1/2	--	--	1 1/4" spud Syphon jet, Blowout
Ditto	Royal 186	3012600	11 1/2"	3/4 - 1	--	--	3/4" spud Washout, Wash Down
" ? →	Royal 186-11	3012700	11 1/2"	2 - 2 1/2	--	--	3/4" spud Syphon Jet
"	Royal 300-U	3013502	Pedal Oper	3 - 3 1/2	--	--	1 1/4" spud Syphon jet, Blowout
"	Royal 320		Pedal	- 1	--	--	3/4" spud Washout, Wash Down
"	Royal 320-11		Pedal	2 1/2	--	--	3/4" spud Syphon jet

REQUIRED PRESSURE @ FLUSH VALVE

TYPE OF CLOSET BOWL	REQUIRED PRESSURE
Flush Valve White	15# per sq. in.
Floor Outlet Bowl	15# per sq. in.
Washdown	15# per sq. in.
Syphon Jet	15# per sq. in.
Reverse Trap	15# per sq. in.
Reverse Trap w/jet	15# per sq. in.
Wall-Hung Bowl	20# per sq. in.
Blowout	25# per sq. in.

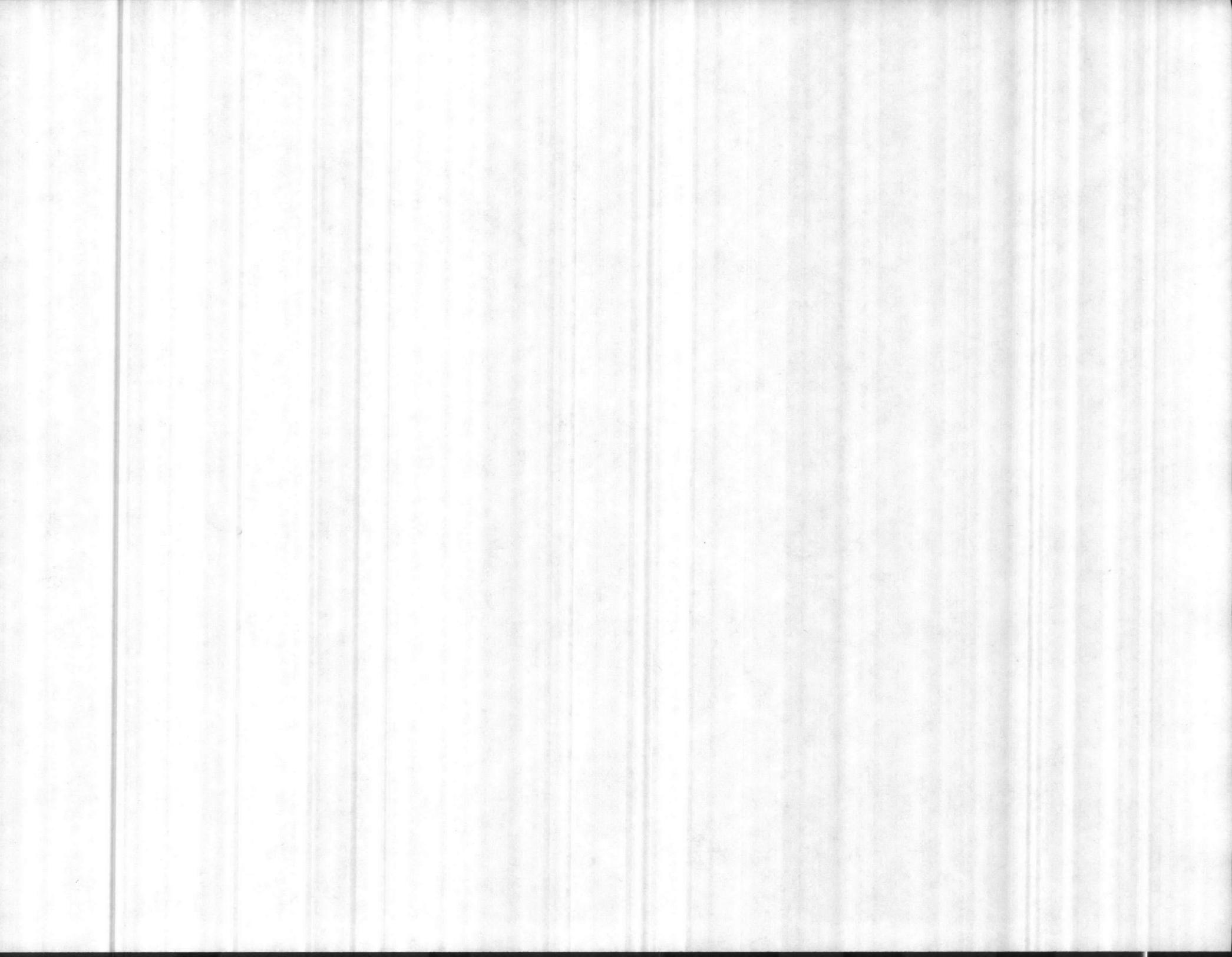
"It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into Contract Number N6247-M-C-766, is in compliance with the Contract drawings and specifications, can be installed in the allocated spaces, and is submitted Government approval.
 Certified by Jan
 Date 1 Nov 83

FLOW RATE PER VALVE

TYPE OF FIXTURE	G. P. M.
Closet Bowl	25 - 30
Urinal - Syphon Jet 1 1/4 spud	18
Urinal - Syphon Jet 3/4" spud	7 - 8
Urinal - Washout, Wash Down	6 - 7

NOTE: Sloan Royal Flush Valves are furnished with quiet feature, non-hold-open handle, adjustable tailpiece and Bak-Chek angle stop as standard.

W. G. LESEMANN & SON
 Manufacturers' Representatives
 P. O. Box 7066
 Richmond, Virginia 221





URINAL SUPPORTS

(material) shown and marked in this submittal is that proposed to be incorporated in Contract No. DA-31-C-1766. It is in compliance with the Contract drawings and specifications and is submitted for the approval of the Contracting Officer's Representative.

approval:
Certified by _____
Date _____

WITH SUPPORTING STUDS AND ADJUSTABLE COUPLING FOR BLOWOUT URINALS

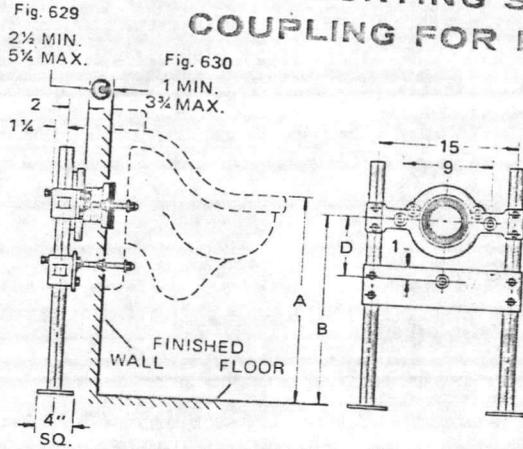


Fig. 629 3" OUTLET CONNECTION
 Fig. 630 4" OUTLET CONNECTION
 For lettered dimension contact factory.

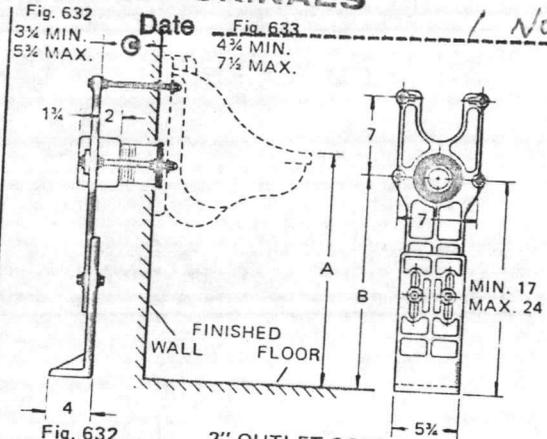


Fig. 632 2" OUTLET CONNECTION
 Fig. 633 3" OUTLET CONNECTION
 For lettered dimension contact factory.

WITH SUPPORTING STUDS FOR BLOWOUT AND WASHOUT URINALS

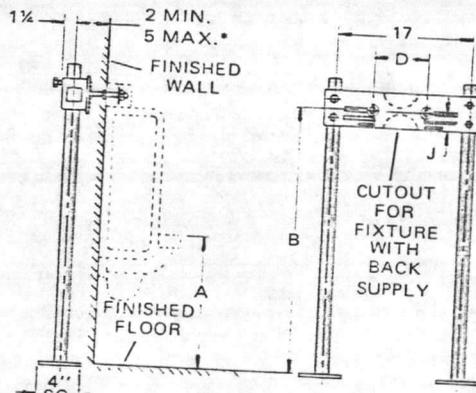


Fig. 634 LESS BOTTOM BEARING PLATE
 For lettered dimension contact factory.
 *Larger MAX. when specified

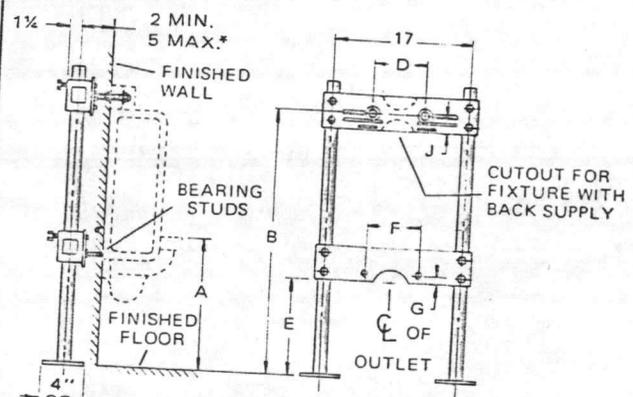


Fig. 635 WITH BOTTOM BEARING PLATE
 For lettered dimension contact factory.
 *Larger MAX. when specified

WITH HANGER PLATE FOR BLOWOUT AND WASHOUT URINALS

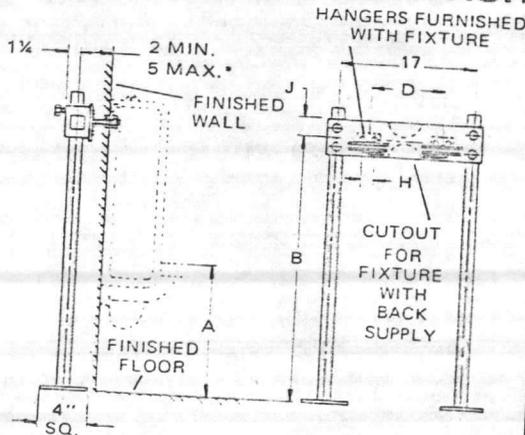


Fig. 636 LESS BOTTOM BEARING PLATE
 For lettered dimension contact factory.
 *Larger MAX. when specified

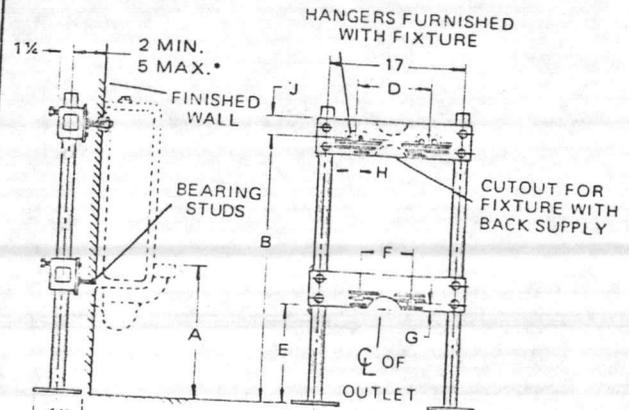


Fig. 637 WITH BOTTOM BEARING PLATE
 For lettered dimension contact factory.
 *Larger MAX. when specified

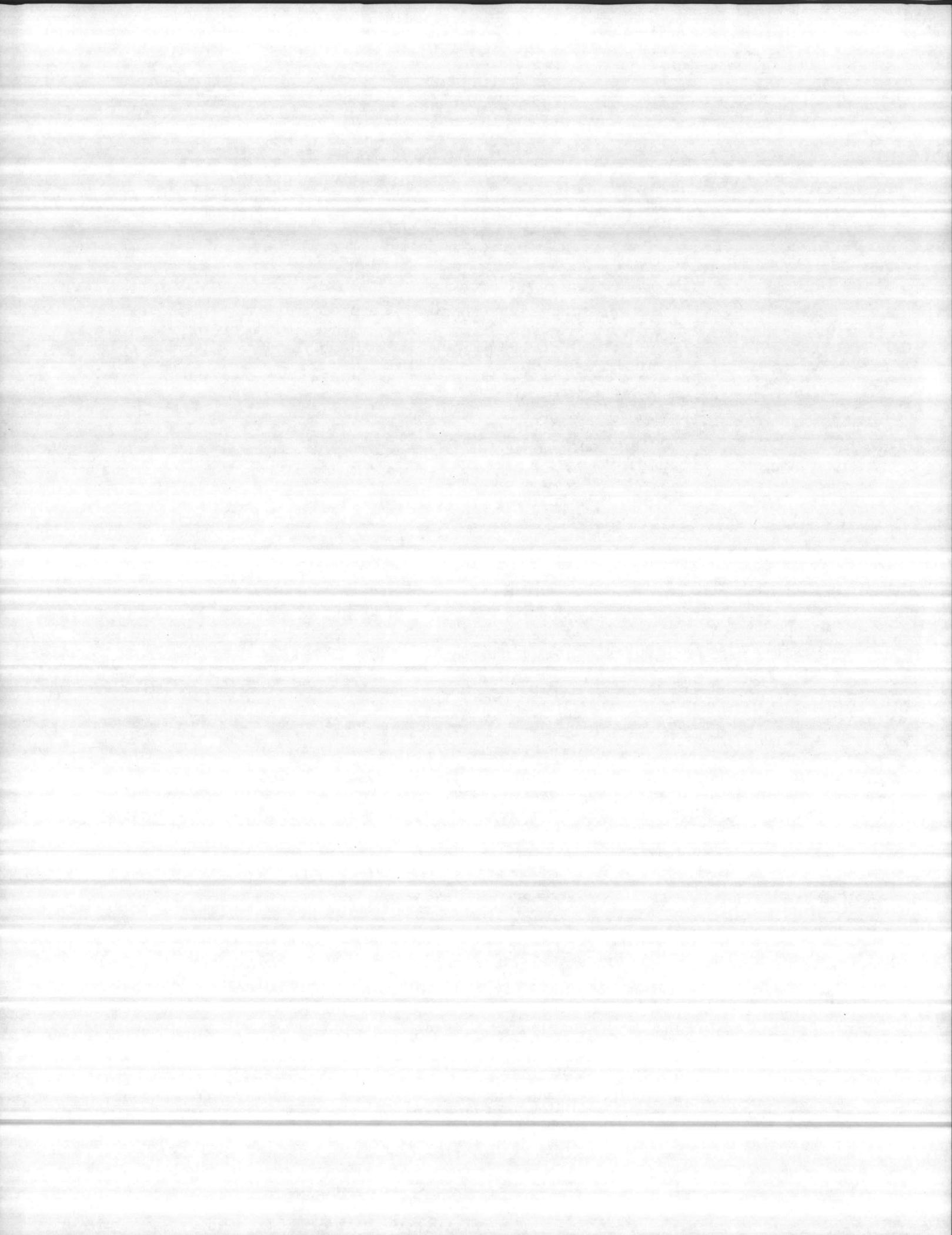
For variations and additional data, refer to specs 0-02 thru 0-08. Always specify fixture refer. name and number when ordering.

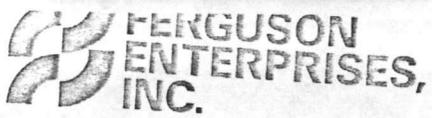
629 630

632 633

634 635

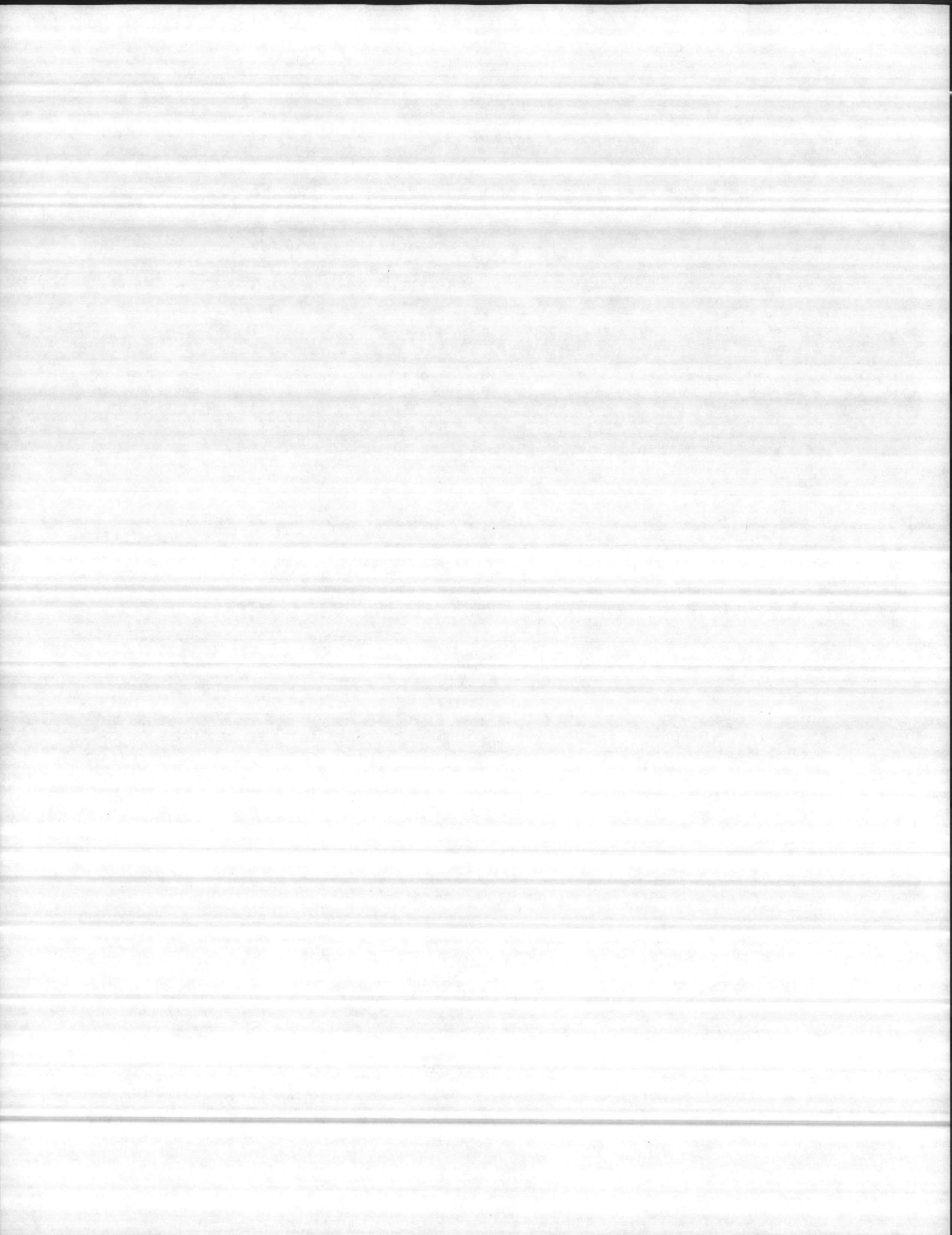
636 637





825 S 17th Street
Wilmington, NC 28401
Phone (919) 343-1510
Reply to P O Box 3037
Wilmington, NC 28406

2.4.3. Lavatories (P-3)

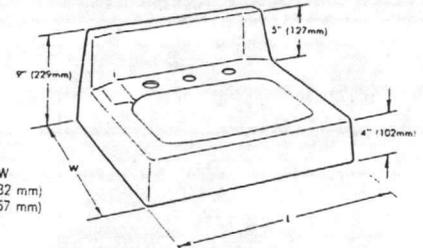


"It is hereby certified that the equipment (material) shown and marked in this submittal is that proposed to be incorporated into Contract Number N62470-81-C-1766, is in compliance with the Contract drawings and specifications, can be installed in the allocated spaces, and is submitted Government approval.

Certified by _____ *Am*

Date _____ *1 Nov 83* "

Sizes	L	W
19x17"	19" (483 mm)	17" (432 mm)
20x18"	20" (508 mm)	18" (457 mm)



HUDSON K-2861

K-2861 Hudson acid resisting enameled cast iron wall mounted lavatory with 4" (102 mm) faucet centers.

K-2863 Hudson lavatory with 8" (204 mm) faucet centers.

Trim Illustrated (at right)

K-7401-T Triton II Series Water-Guard lavatory faucet with Valvet[®] valve units.

K-7606 3/8" angle supplies with stops.

K-9000 1 1/4" cast brass "P" trap.

Trim Illustrated (below)

K-7436-T Triton II Series Water-Guard lavatory faucet with Valvet[®] valve units.

K-7606 3/8" angle supplies with stops.

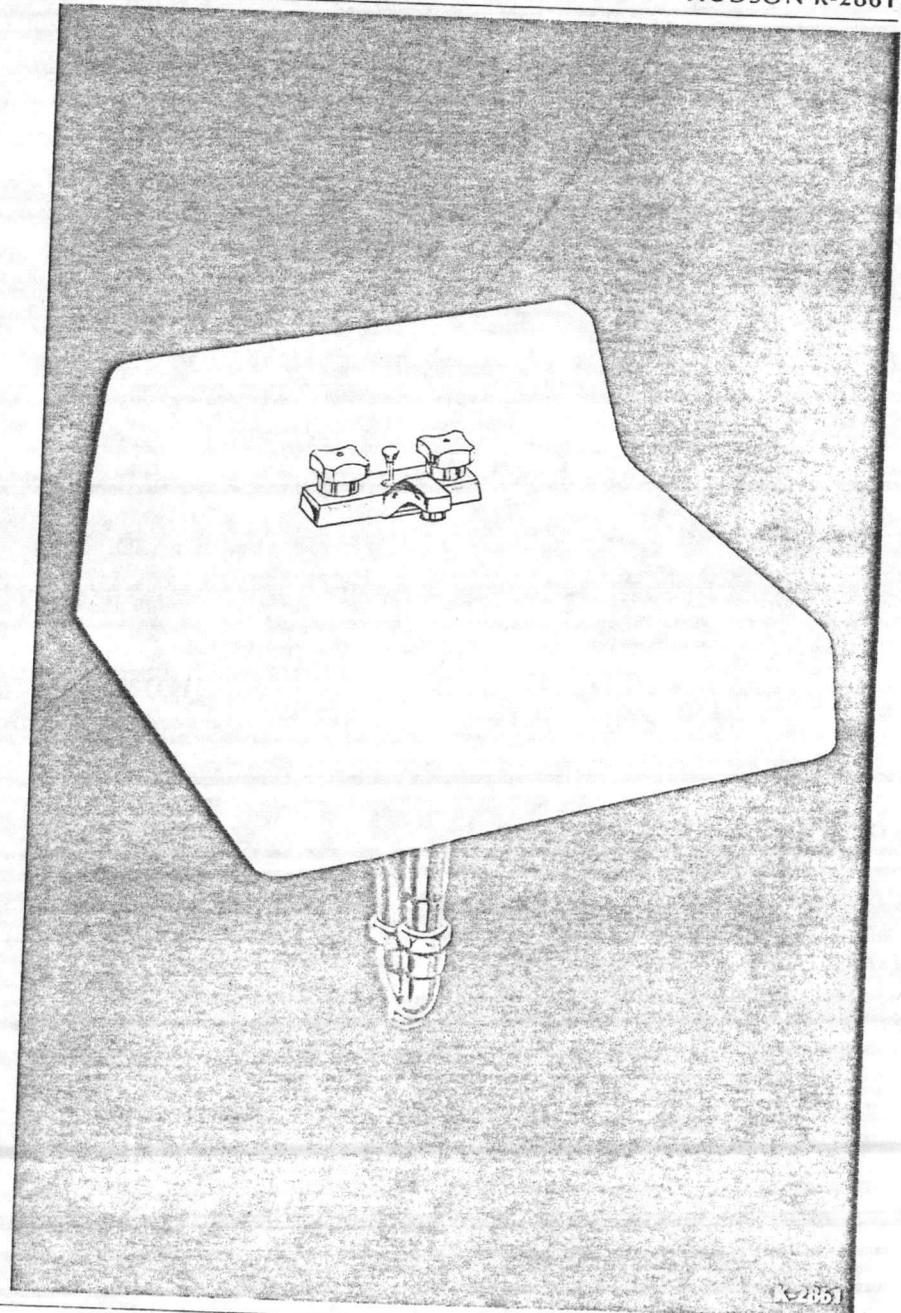
K-9000 1 1/4" cast brass "P" trap.

Sizes 19" x 17" (483 x 432 mm). Basin 14 1/2" x 10" (369 x 254 mm). Back 5" (127 mm).
 20" x 18" (508 x 457 mm). Basin 14 1/2" x 10" (369 x 254 mm). Back 5" (127 mm).

K-2867 Hudson with 4" centers drilling and lugs for chair carrier, 20" x 18" size only.

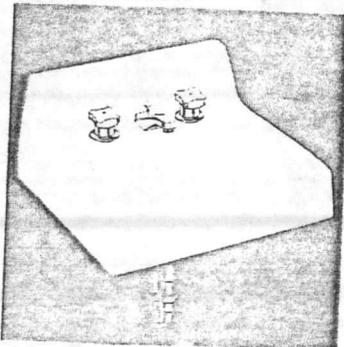
K-2868 Hudson with 8" centers drilling and lugs for chair carrier, 20" x 18" size only.

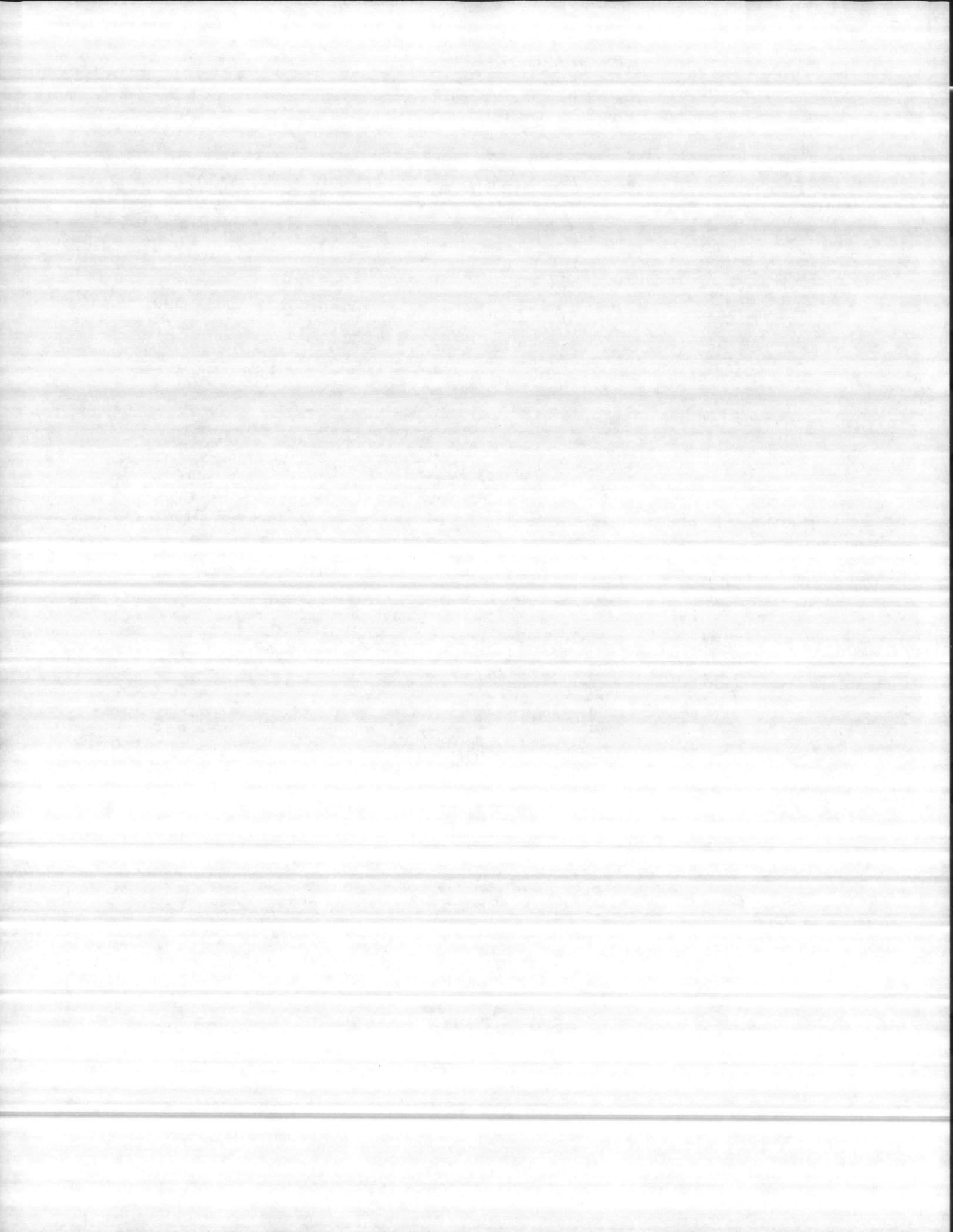
For other faucet styles, see Faucet Section.

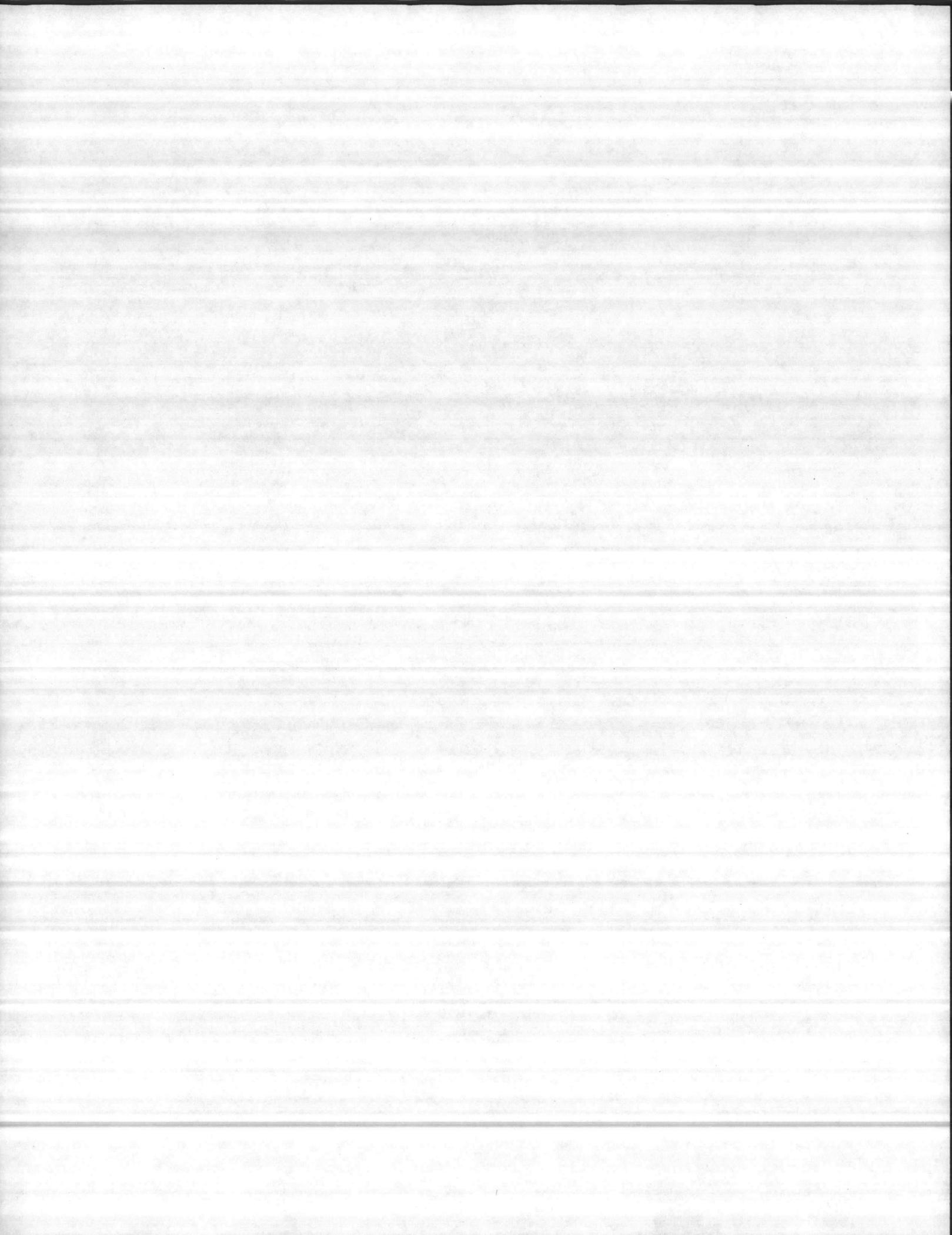


K-2861

K-2863 HUDSON







"It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into Contract Number DAAG-81-C-1766 is in compliance with the Contract drawings and specifications and is allocated to the allocated spaces, and is submitted Government approval.

Certified by J. Lee

Date 1 Nov 83

K-9000 Cast brass adjustable "P" trap, cleanout plug, tubing outlet.

K-9004 Cast brass adjustable "P" trap, cleanout plug, outlet tapped for I.P. (Available in 2" x 2" size also.)

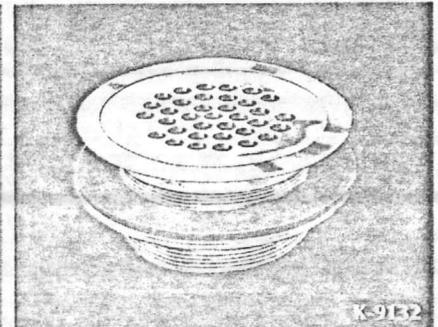
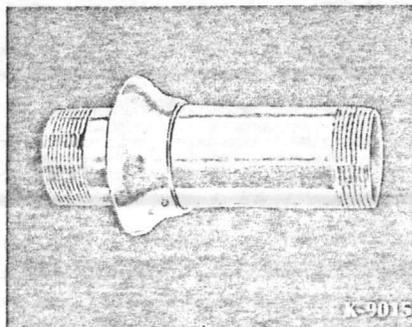
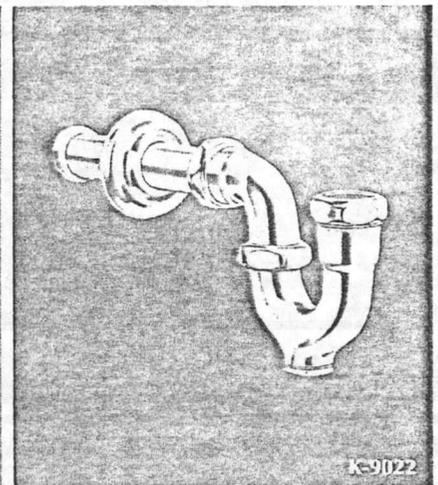
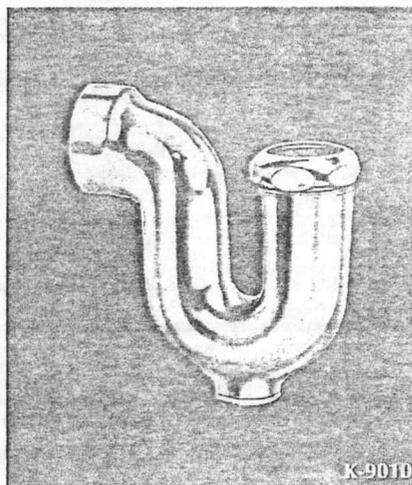
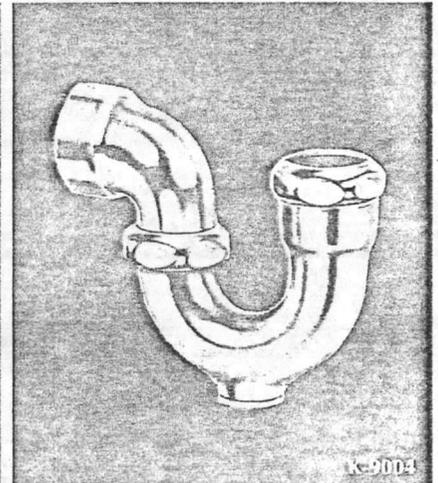
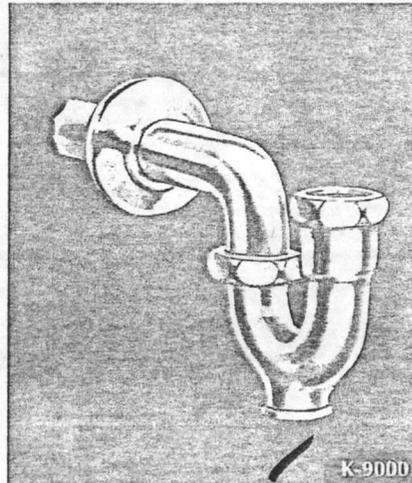
K-9010 Cast brass one piece "P" trap, cleanout plug, outlet tapped for I.P.

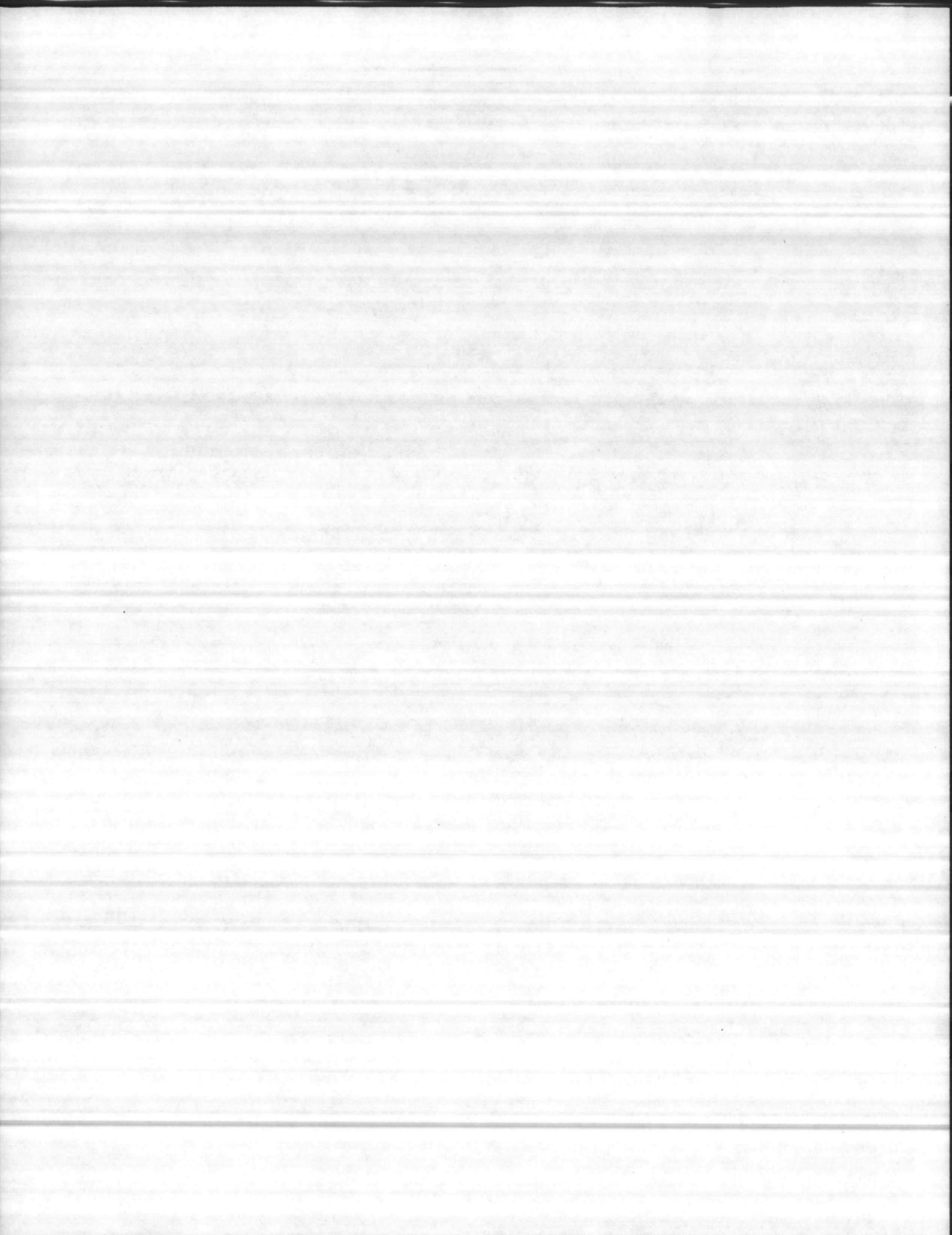
K-9015 6" (213 mm) C.P. nipple and cast brass flange. Threaded both ends. 1 1/4" or 1 1/2" I.P. size. (Not available in 2" I.P. size.)

K-9022 Cast brass adjustable "P" trap, cleanout plug, I.P.S. bushing on end of outlet tube.

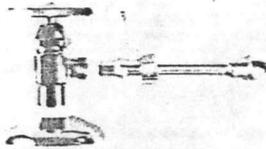
Sizes: 1 1/4" x 1 1/4" (32 x 32 mm), 1 1/4" x 1 1/2" (32 x 38 mm), 1 1/2" x 1 1/2" (38 x 38 mm).

K-9132 Drain with perforated strainer for 2" caulk connection. Available in polished 24 carat gold electroplate, polished chrome and burnished brass finishes.





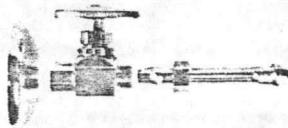
ANGLE SWEAT VALVE



1/2" Nom. Sweat

CATALOG NUMBER	RISER LENGTH	WEIGHT 100 PR.
S5M12	12"	94 lbs.
S5M15	15"	104 lbs.
S5M20	20"	115 lbs.

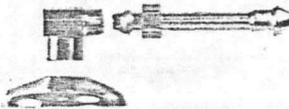
STRAIGHT SWEAT VALVE



1/2" Nom. Sweat

S5M12S	12"	98 lbs.
S5M15S	15"	109 lbs.
S5M20S	20"	120 lbs.
S5M30S	30"	139 lbs.
S5M36S	36"	149 lbs.

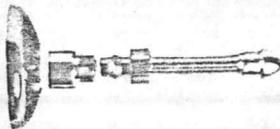
ANGLE SWEAT FITTING



1/2" Nom. Sweat

S2M12	12"	60 lbs.
S2M15	15"	71 lbs.
S2M20	20"	83 lbs.

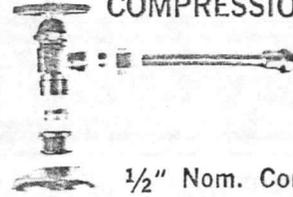
STRAIGHT SWEAT FITTING



1/2" Nom. Sweat

S1M12	12"	50 lbs.
S1M15	15"	60 lbs.
S1M20	20"	67 lbs.
S1M30	30"	91 lbs.
S1M36	36"	101 lbs.

ANGLE DOUBLE COMPRESSION VALVE



1/2" Nom. Compression

CATALOG NUMBER	RISER LENGTH	WEIGHT 100 PR.
C5M12	12"	101 lbs.
C5M15	15"	112 lbs.
C5M20	20"	123 lbs.

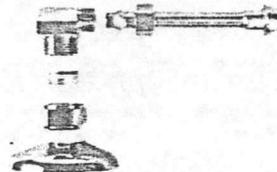
STRAIGHT DOUBLE COMPRESSION VALVE



1/2" Nom. Compression

C5M12S	12"	98 lbs.
C5M15S	15"	109 lbs.
C5M20S	20"	120 lbs.
C5M30S	30"	139 lbs.
C5M36S	36"	149 lbs.

ANGLE DOUBLE COMPRESSION FITTING



1/2" Nom. Compression

C2M12	12"	58 lbs.
C2M15	15"	68 lbs.
C2M20	20"	80 lbs.

STRAIGHT DOUBLE COMPRESSION FITTING



1/2" Nom. Compression

C1M12	12"	54 lbs.
C1M15	15"	65 lbs.
C1M20	20"	77 lbs.
C1M30	30"	95 lbs.
C1M36	36"	105 lbs.

Metal Nose Piece



3/8" O.D. Tube



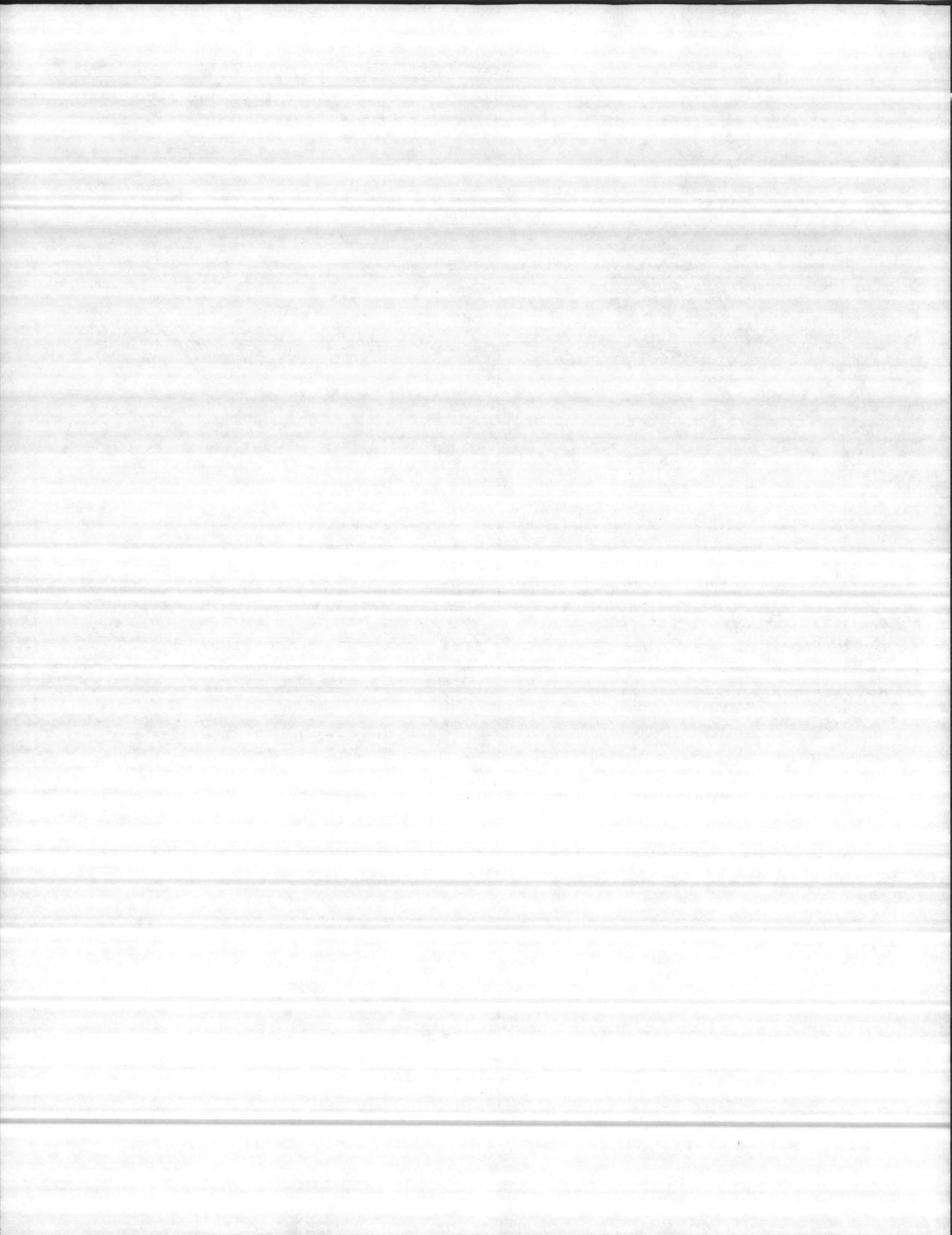
"It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into the Contract." Contract Number: 9-20116 is in accordance with the Contract drawings and specifications, and is submitted for Government approval.

Compress-
sion
Copper
Tube Inlet

Certified by _____

Date _____

— 3 — Nov 83 "

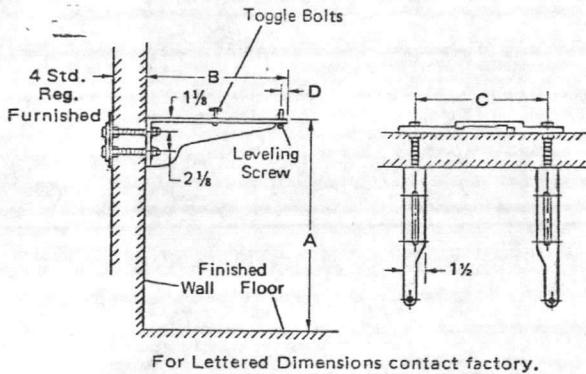


WALL MOUNTED TYPE WITH ACID RESISTANT COATED EXPOSED ARMS

(material) shown and marked in this submittal is that proposed to be incorporated into Contract Number DA-10-06 is in compliance with the specifications and is submitted for Government approval.

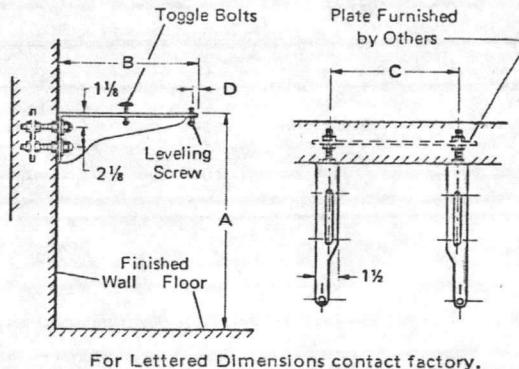
WALL MOUNTED TYPE WITH ACID RESISTANT COATED EXPOSED ARMS

Fig. 780 FOR FLAT SLAB AND HIGH BACK LAVATORIES SET ON BLOCK WALL



For Lettered Dimensions contact factory.

Fig. 790 FOR FLAT SLAB AND HIGH BACK LAVATORIES TO ATTACH TO BACKING PLATE SECURED IN WALL



For Lettered Dimensions contact factory.

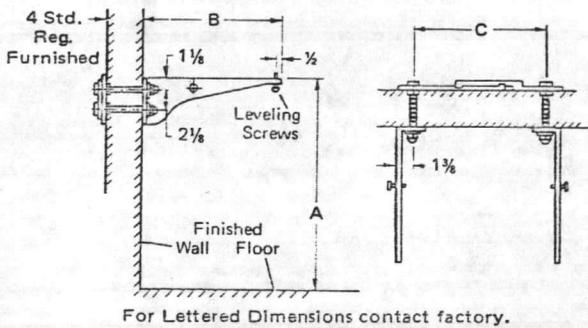


Fig. 780

Fig. 790

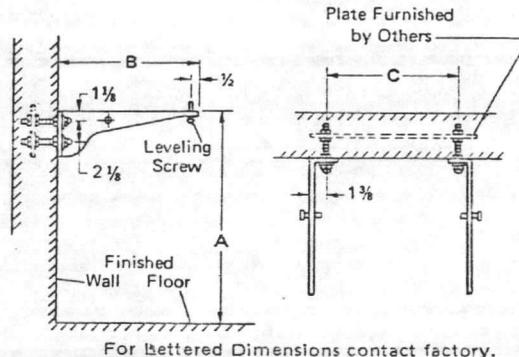
WALL MOUNTED TYPE WITH ACID RESISTANT COATED EXPOSED ARMS

Fig. 782 WITH OFFSET ARMS FOR HIGH BACK ENAMELED IRON LAVATORIES SET ON BLOCK WALL



For Lettered Dimensions contact factory.

Fig. 792 WITH OFFSET ARMS FOR HIGH BACK ENAMELED IRON LAVATORIES TO ATTACH TO BACKING PLATE SECURED IN WALL



For lettered Dimensions contact factory.

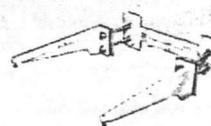
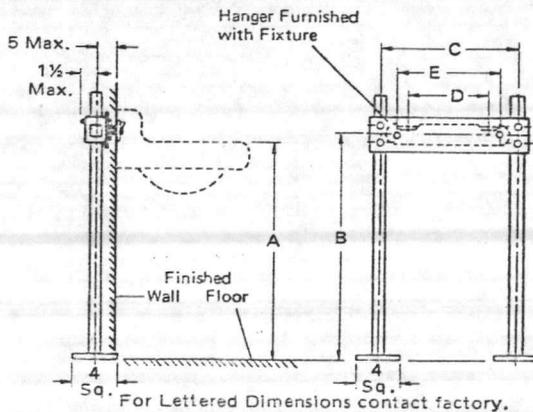


Fig. 782

Fig. 792

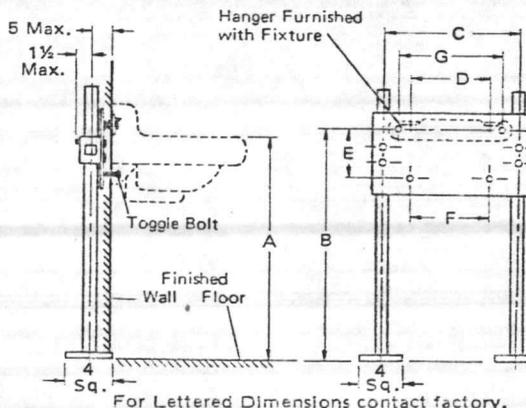
FLOOR MOUNTED TYPE WITH "PRO-SET" UPRIGHTS

Fig. 800 FOR HIGH BACK LAVATORIES WITH CONCEALED HANGER



For Lettered Dimensions contact factory.

Fig. 805 FOR HIGH BACK LAVATORIES WITH CONCEALED HANGER AND EXTENDED BOTTOM SECURING LUGS



For Lettered Dimensions contact factory.



Fig. 800

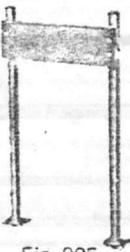
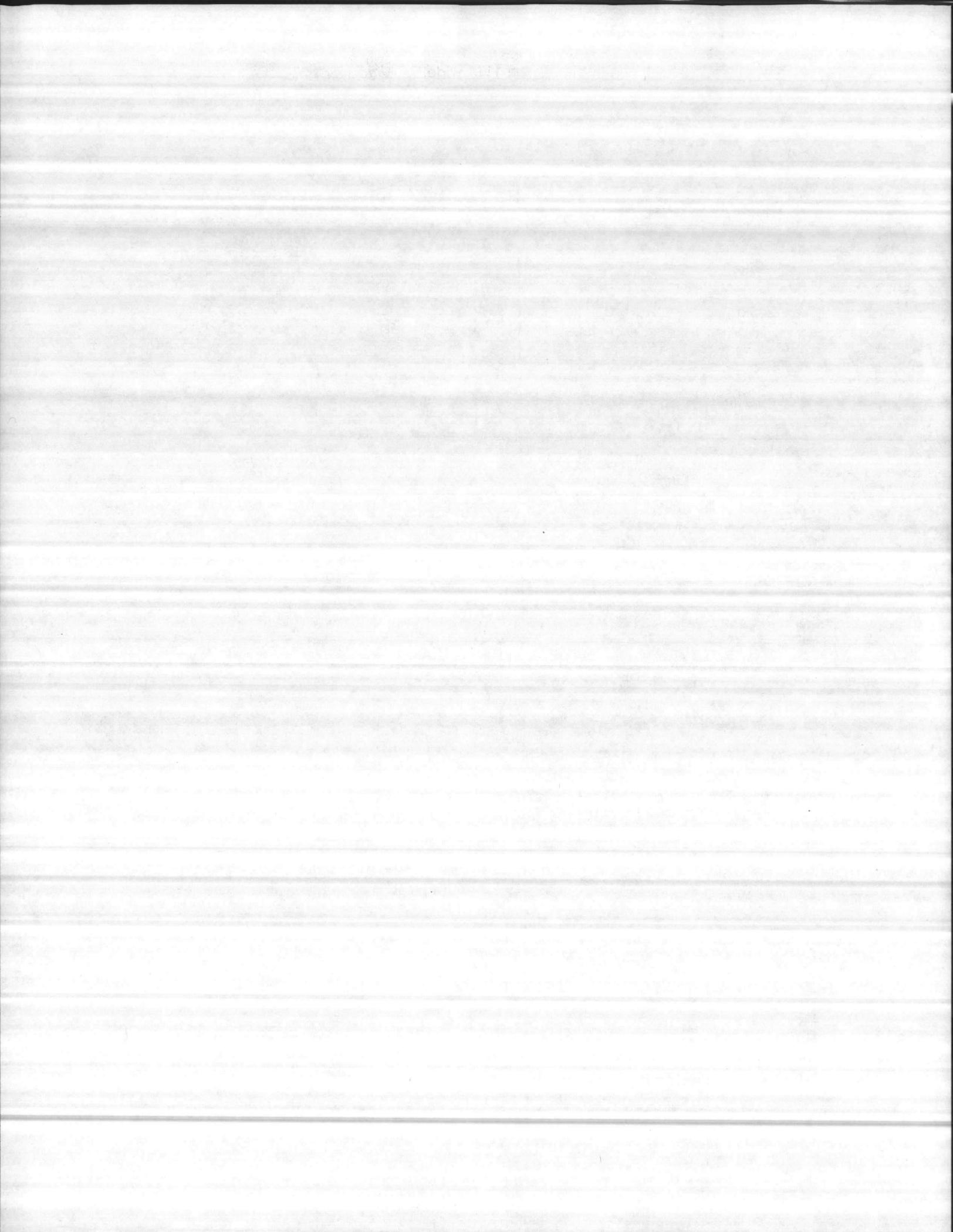


Fig. 805

NOTE: For metal stud wall construction, specify Suffix -M31 rectangular steel upright with welded bases for greater strength. See Fig. 700-M31 and 700-27-M31.

For variations, refer to page 0-L4 Always specify fixture mfrs. name, number and size when ordering.



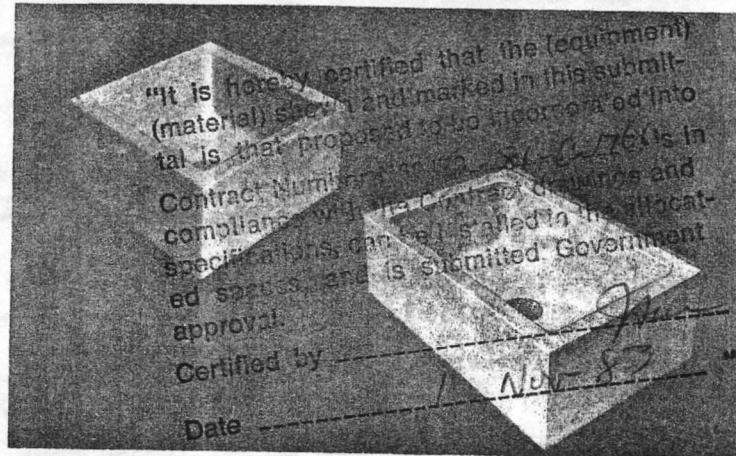
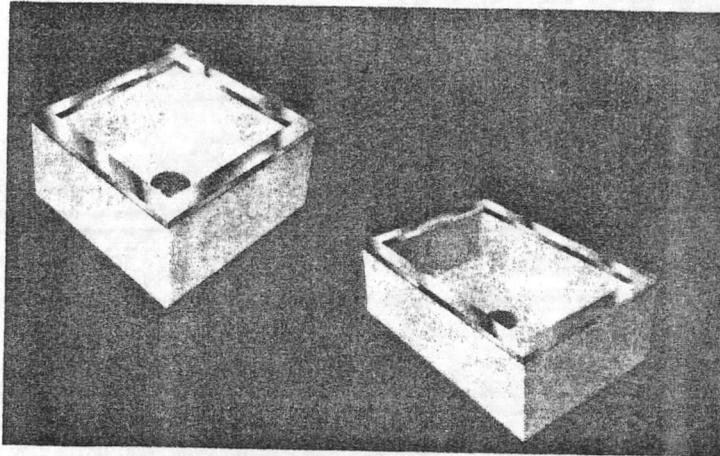
Model No. (450) Size (36x36) as manufactured by Stern-Williams Co., Inc. Shoulders shall not be less than 9 3/4" high inside measurement, and not less than 1 1/4" wide. Tiling flange, cast integral, shall extend 1" above shoulder on 1, 2, or 3 sides (as job required). Drain shall be cast brass with nickel bronze strainer cast integral and shall provide for a caulked lead connection not less than 1" deep to a 3" pipe. Receptor composed of black and pearl grey marble chips and white Portland cement ground smooth, grouted and sealed to resist stains. Stainless steel cap of one piece 20 ga. 302 stainless steel cast integral on all four sides.

WILLIAMS

MOP SERVICE BASINS

Serviceceptor[®]

ARCHITECTURAL SPECIFICATIONS



WITH STAINLESS STEEL CAP

MODEL	FLANGES	MODEL	FLANGES
24"x24"x12"		36"x36"x12"	
SB-900	without tiling flange	SB-500	without tiling flange
SB-901	w/tiling flange—1 sd.	SB-501	w/tiling flange—1 sd.
SB-902	w/tiling flange—2 sds.	SB-502	w/tiling flange—2 sds.
SB-903	w/tiling flange—3 sds.	SB-503	w/tiling flange—3 sds.
32"x32"x12"		36"x24"x12"	
SB-700	without tiling flange	SB-300	without tiling flange
SB-701	w/tiling flange—1 sd.	SB-301	w/tiling flange—1 sd.
SB-702	w/tiling flange—2 sds.	SB-302-L	w/tiling flange—2 sds.
SB-703	w/tiling flange—3 sds.	SB-302-R	w/tiling flange—2 sds.
		SB-303	w/tiling flange—3 sds.

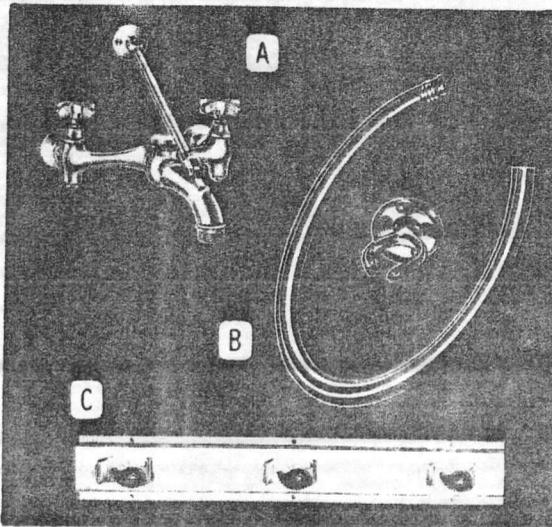
* Flange is across back and on LEFT side on model numbers ending in "12"

WITHOUT STAINLESS STEEL CAP

MODEL	FLANGES	MODEL	FLANGES
24"x24"x12"		36"x36"x12"	
SB-800	without tiling flange	SB-400	without tiling flange
SB-801	w/tiling flange—1 sd.	SB-401	w/tiling flange—1 sd.
SB-802	w/tiling flange—2 sds.	SB-402	w/tiling flange—2 sds.
SB-803	w/tiling flange—3 sds.	SB-403	w/tiling flange—3 sds.
32"x32"x12"		36"x24"x12"	
SB-600	without tiling flange	SB-200	without tiling flange
SB-601	w/tiling flange—1 sd.	SB-201	w/tiling flange—1 sd.
SB-602	w/tiling flange—2 sds.	SB-202-L	w/tiling flange—2 sds.
SB-603	w/tiling flange—3 sds.	SB-202-R	w/tiling flange—2 sds.
		SB-203	w/tiling flange—3 sds.

* Flange is across back and on RIGHT side on model numbers ending in "12"

QUALITY OPTIONAL FITTINGS



- T-15-VB Mop-Service sink fitting with integral stops. Spout with bucket hook, 3/4" hose thread end. Vacuum breaker, Adjustable top brace. Inlets 8" on centers. Polished Chrome finish.
- T-30-VB Mop Service sink fitting same as above less top brace, and integral stops. Rough chrome finish.
- T-35 Hose and wall hook. Hose 35" long, with 3/4" chrome coupling. Wall bracket chrome cast brass.
- T-40 Stainless Steel Mop Hanger of stainless steel with #4 finish. . . 24" long, with 3 rubber spring loaded grips.

PLEASE ADD

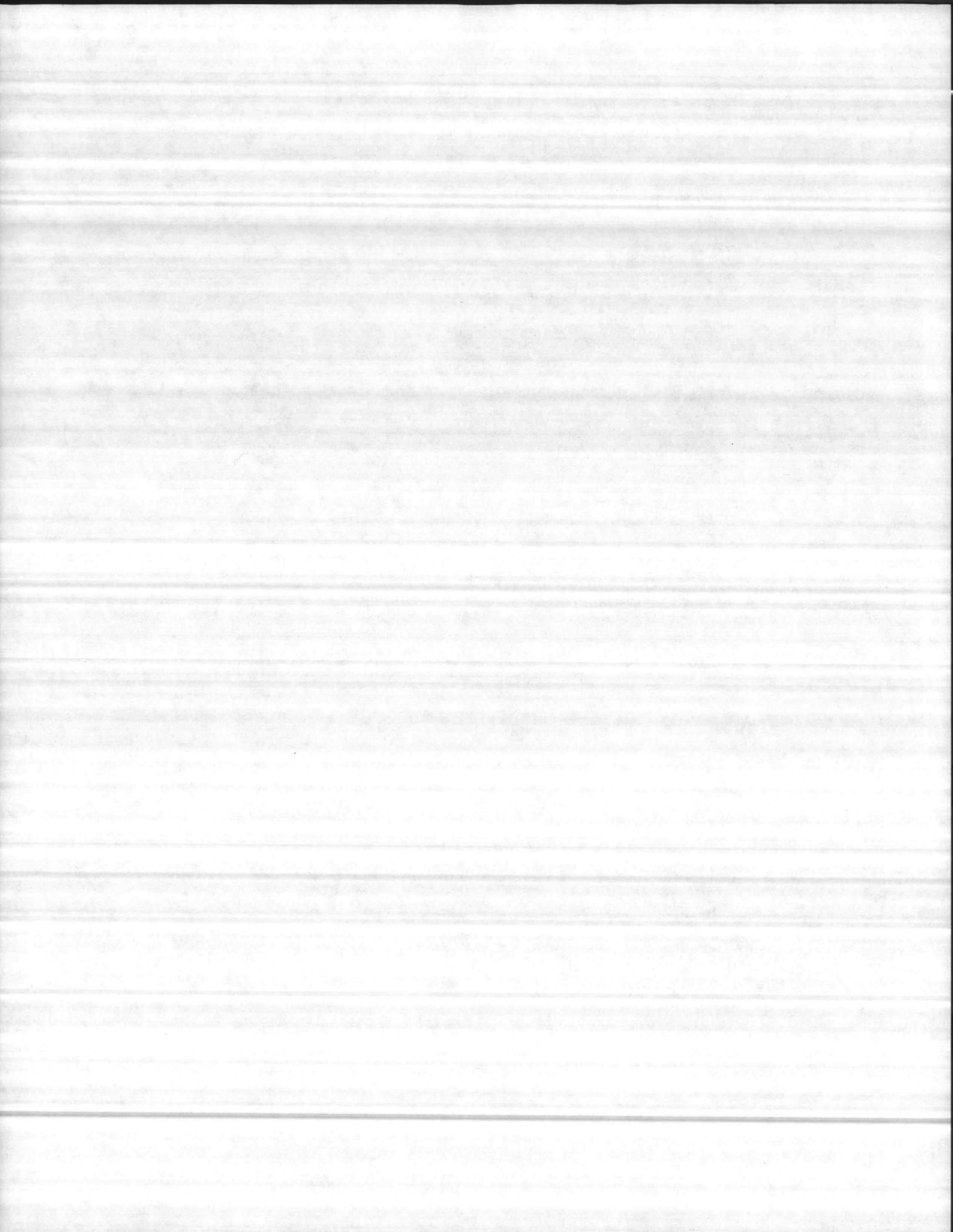
NOTE: #SB-450 is same dimensions as #SB-400 and is furnished with continuous stainless steel cap on all 4 sides.

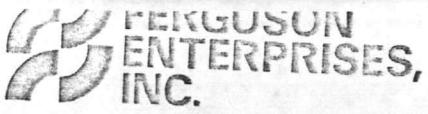
JOB

LOCATION

ENGINEER

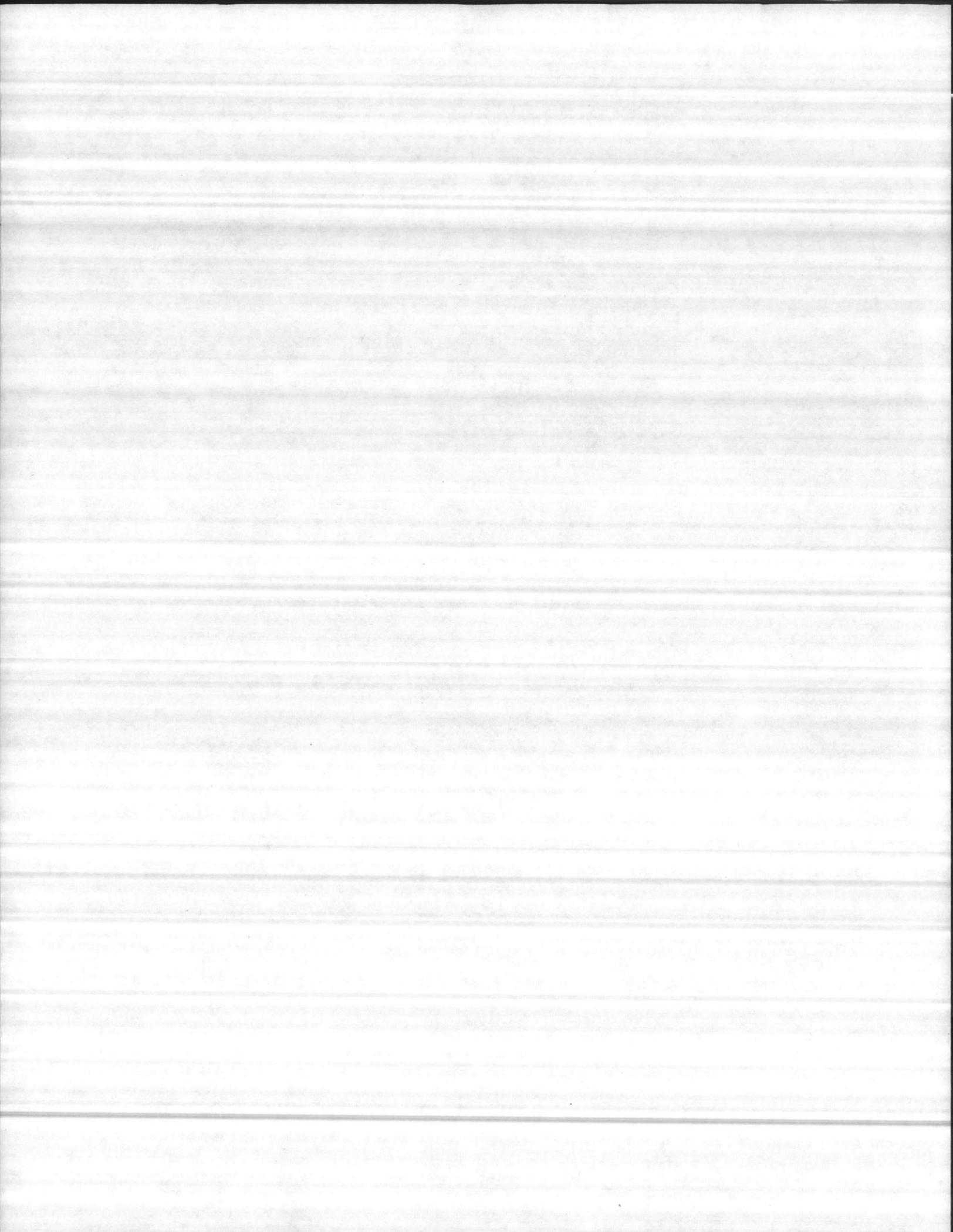
CONTRACTOR





825 S 17th Street
Wilmington, NC 28401
Phone (919) 343-1510
Reply to P O Box 3037
Wilmington, NC 28406

2.4.4 Countertop Kitchen Sinks (P-5)



Lustertone SINK

LR-SERIES SINGLE COMPARTMENT 18 GAUGE—TYPE 302—SELF RIM

Highest quality, spacious sink bowl seamlessly drawn of #18 gauge, type 302 (18-8) nickel bearing stainless steel. Bowl depth; LR-2521, 8-inches; all other, 7½-inches with 1½-inch radius coved corners. Self rim. Exposed surfaces are hand blended to a highlighted LK-6K-H satin finish. Underside is fully undercoated.

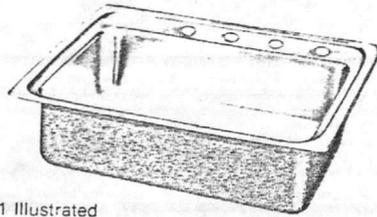
Compartment and faucet deck are recessed 3/16-inch below outside edge of sink.

Drain opening is 3½-inches.

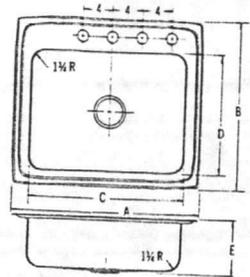
†MRL models are produced from type 316 nickel bearing stainless steel.

NOTE: Unless otherwise specified where choice of one or three faucet holes is indicated, three faucet holes furnished.

Where choice of three or four faucet holes is indicated, four faucet holes furnished.

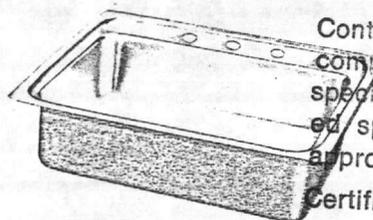


LR-2521 Illustrated



Model Number	DIMENSIONS IN INCHES Length is left to right. Width is front to back.					Cutout In Counter Top 1/2" Radius Corners		No. of 1/2" Dia. Faucet Holes 3" Centers	Ship. Wt. Lbs.
	Overall		Inside Each Compartment			L	W		
	A	B	C	D	E				
LR-1517	15	17½	12	12	7½	14¾	16¾	1 or 3	10
LR-1522	15	22	11½	16	7½	14¾	21¾	3	12
LR-1716	17	16	14	10	7½	16¾	15¾	1 or 3	12
LR-1720	17	20	14	14	7½	16¾	19¾	1 or 3	12
LR-1722	17	22	13½	16	7½	16¾	21¾	3	13
LR-1918	19	18	16	11½	7½	18¾	17¾	1 or 3	13
LR-1922	19	22	16	16	7½	18¾	21¾	3	13
LR-2219	22	19½	18	14	7½	21¾	18¾	3 or 4	13
LR-2222	22	22	19	16	7½	21¾	21¾	3 or 4	13
LR-2521	25	21¼	21	15¾	8	24¾	20¾	3 or 4	15
LR-3122	31	22	28	16	7½	30¾	21¾	3 or 4	19
†MLR-1918	19	18	16	11½	7½	18¾	17¾	Specify	13
†MLR-2522	25	22	21	15¾	7½	24¾	21¾	Specify	15

"It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into Contract Number N62470-81-C-1706 in compliance with the Contract drawings and specifications, can be installed in the allotted spaces, and is submitted Government approval.



PSR-2521 Illustrated

Certified by _____
Date 1 Nov 83

Pacemaker Starlite SINKS

PSR-SERIES SINGLE COMPARTMENT 20 GAUGE—TYPE 302—SELF RIM

Fine quality, spacious sink bowl seamlessly drawn of #20 gauge, type 302 (18-8) nickel bearing stainless steel. Bowl depth: 7½-inches with 1½-inch radius coved corners. Self rim. Exposed surfaces polished to a highlighted LK-5K-H bright satin finish. Underside is fully undercoated.

All models have a 3/16-inch drop ledge.

Drain opening is 3½-inches.

NOTE: Unless otherwise specified, where choice of one or three faucet holes is indicated, three faucet holes furnished.

Where choice of three or four faucet holes is indicated, four faucet holes furnished.

Model Number	DIMENSIONS IN INCHES Length is left to right. Width is front to back.					Cutout-Size		Faucet Holes	Ship. Wt. Lbs.
	A	B	C	D	E	L	W		
PSR-1517	15	17½	12	12	7¼	14¾	16¾	1 or 3	8
PSR-1716	17	16	14	10	7¼	16¾	15¾	1 or 3	9
PSR-1720	17	20	14	14	7¼	16¾	19¾	1 or 3	9
PSR-1722	17	22	13½	16	7¼	16¾	21¾	3	10
PSR-1918	19	18	16	11½	7¼	18¾	17¾	1 or 3	9
PSR-2219	22	19½	18	14	7¼	21¾	18¾	3 or 4	10
PSR-2222	22	22	19	16	7¼	21¾	21¾	3 or 4	11
PSR-2521	25	21¼	21	15¾	7¼	24¾	20¾	3 or 4	13
PSR-3122	31	22	28	16	7¼	30¾	21¾	3 or 4	16
PSRS-3322	33	22	28	16	7¼	32¾	21¾	3 or 4	17

CELEBRITY SINK

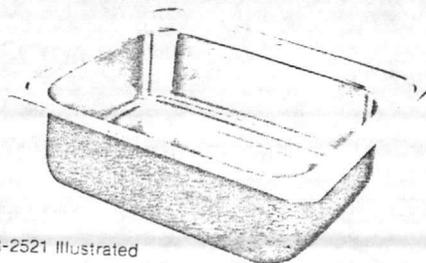
CR-SERIES SINGLE COMPARTMENT 20 GAUGE—TYPE 302—SELF RIM

Good quality, spacious sink bowl seamlessly drawn of #20 gauge, type 302 (18-8) nickel bearing stainless steel. Bowl depth: 7-inches with 3-inch radius vertical coved corners. Self rim. Exposed surfaces are machine polished to a highlighted LK-4K-H bright finish. Underside is fully undercoated.

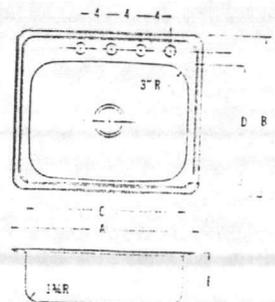
All models have a 3/16-inch drop ledge.

Drain opening is 3½-inches.

NOTE: Where choice of three or four faucet holes is indicated, four faucet holes always furnished unless otherwise specified.

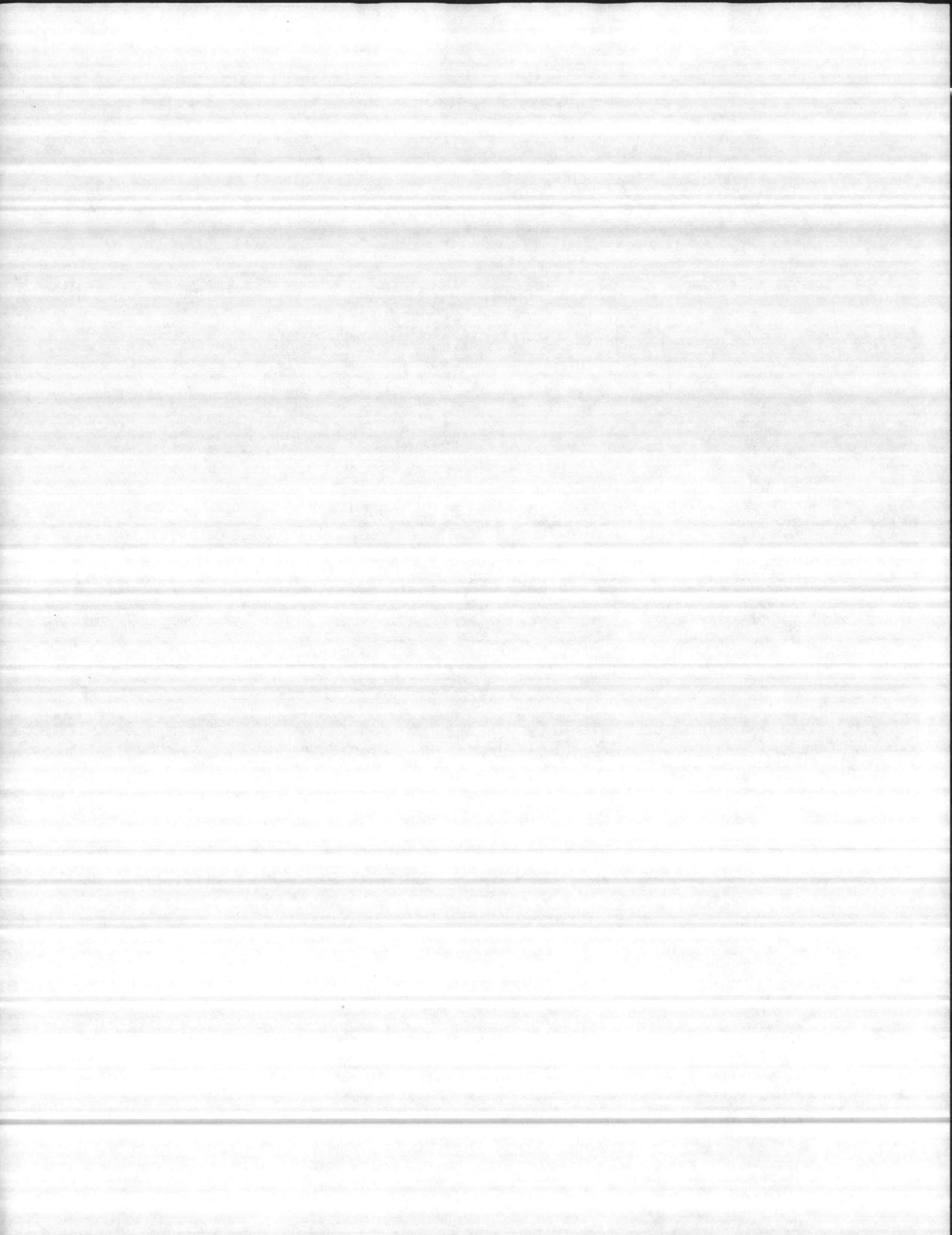


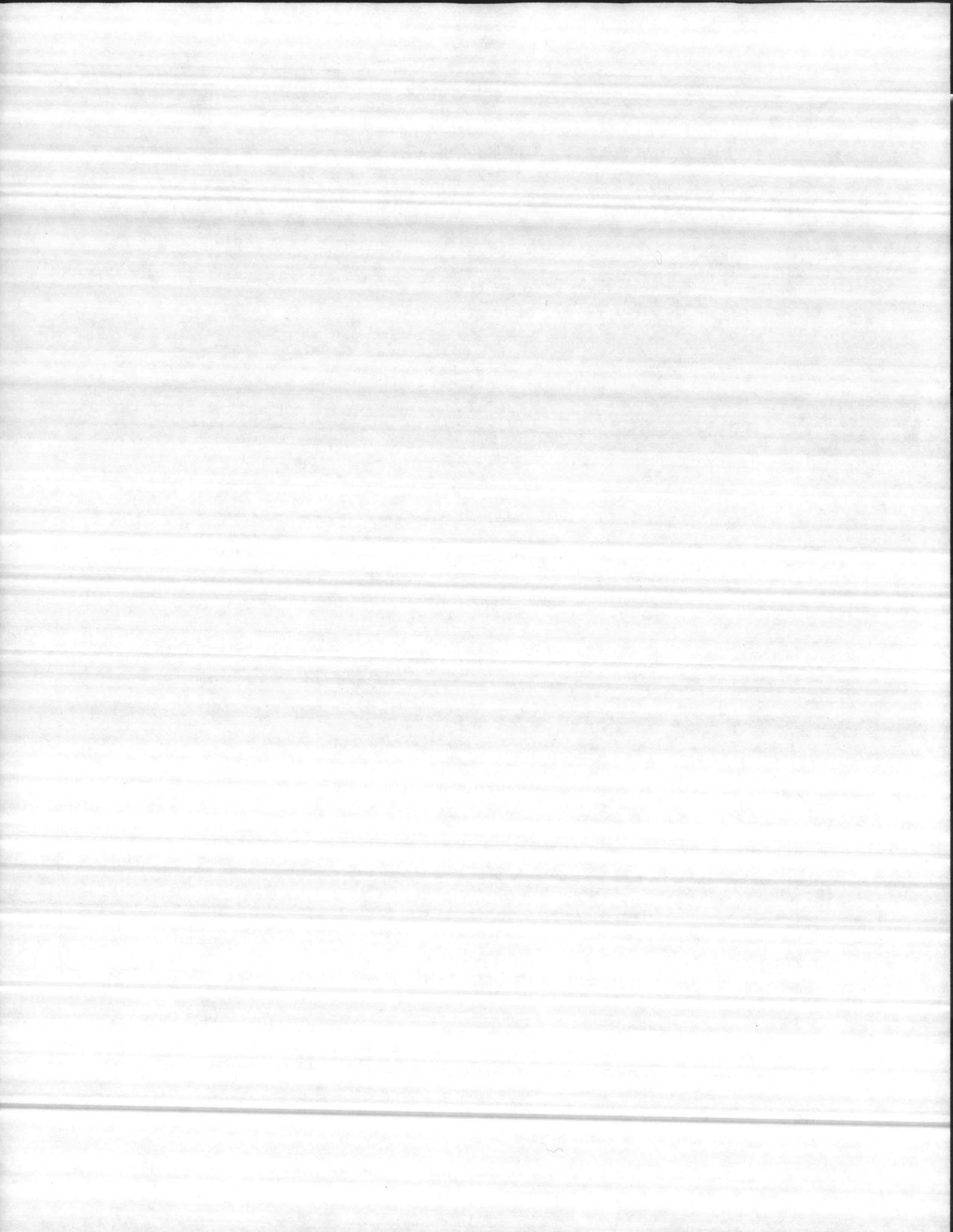
CR-2521 Illustrated

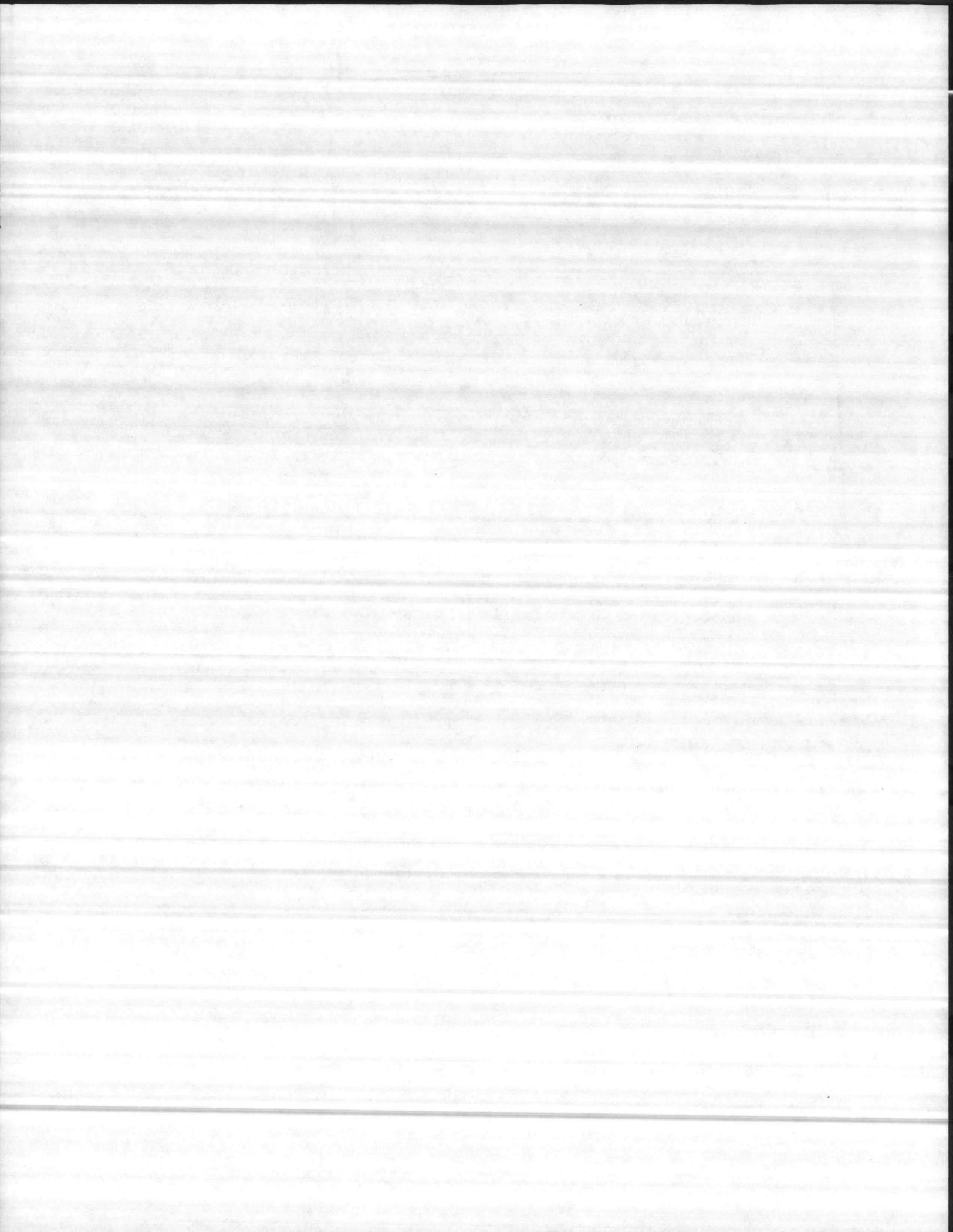


Model Number	DIMENSIONS IN INCHES Length is left to right. Width is front to back.					Cutout-Size		Faucet Holes	Ship. Wt. Lbs.
	A	B	C	D	E	L	W		
CR-1721	17	21¼	14	15¾	7	16¾	20¾	3	9
CR-2521	25	21¼	21	15¾	7	24¾	20¾	3 or 4	12
CR-3122	31	22	28	15¾	7	30¾	21¾	3 or 4	16
CRS-3322	33	22	28	15¾	7	32¾	21¾	3 or 4	17

See Elkay Catalog CSP-1 for sink models complete with faucet and accessories.

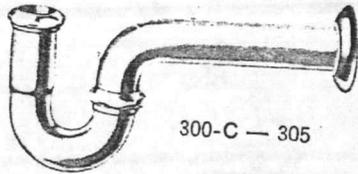




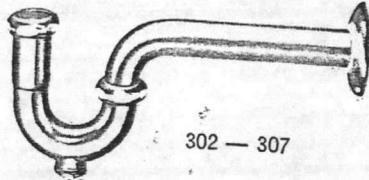


TRAPS

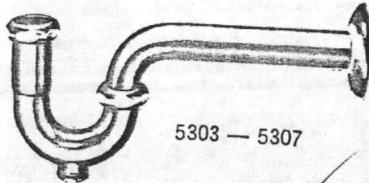
SECTION 1 ■ TUBULAR BRASS ■ CAST BRASS ■ MISCELLANEOUS TRIM



300-C — 305



302 — 307



5303 — 5307

TUBULAR "P" TRAPS, LESS CLEANOUT

Catalog Number	Size	Gauge	Satin Nickel	Pol. Chrome	Std. Pkg.	Wgt. Lbs.
300-C	1 1/4"				25	20
300-CD	1 1/4" Deep Flange		X	X	25	22
*304-C	1 1/2"				25	25
300	1 1/4"	20	X	X	25	25
300-D	1 1/4" Deep Flange	20	X	X	25	25
*304	1 1/2"	20	X	X	25	27
301	1 1/4"	17	X	X	25	30
301-D	1 1/4" Deep Flange	17	X	X	25	30
*305	1 1/2"	17	X	X	25	32
					25	38

TUBULAR "P" TRAPS, WITH CLEANOUT

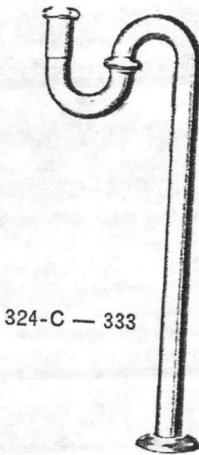
Catalog Number	Size	Gauge	Satin Nickel	Pol. Chrome	Std. Pkg.	Wgt. Lbs.
302	1 1/4"	20	X	X	25	25
*306	1 1/2"	20	X	X	25	31
303	1 1/4"	17	X	X	25	29
*307	1 1/2"	17	X	X	25	38

SEMI-CAST "P" TRAPS, WITH CLEANOUT, CAST BODY — TUBULAR OUTLET

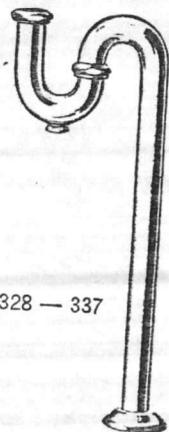
Catalog Number	Size	Gauge	Satin Nickel	Pol. Chrome	Std. Pkg.	Wgt. Lbs.
5303	1 1/4"	17		X	25	46
*5307	1 1/2"	17	X	X	25	59

"P" TRAP - FOOTNOTES

- (1) All 1 1/4" PC "P" Traps packed with extra 1 1/4"x1 1/2" Reducing Polywasher for 1 1/4" Inlet Installation
- (2) For 15" C to E "P" Traps suffix catalog no. "L"
- (3) Ground Joint Traps available in 17GA only — Suffix Cat. No. with X
- (4) 1 1/2" Rough Brass Traps available



324-C — 333



328 — 337

TUBULAR "S" TRAPS, LESS CLEANOUT

Catalog Number	Size	Center To End	Gauge	Satin Nickel	Pol. Chrome	Std. Pkg.	Wgt. Lbs.
324-C	1 1/4"	20 1/2"				25	35
332-C	1 1/2"	20 1/2"		X	X	25	40
324	1 1/4"	20 1/2"	20	X	X	25	40
332	1 1/2"	20 1/2"	20	X	X	25	46
325	1 1/4"	20 1/2"	17	X	X	25	50
333	1 1/2"	20 1/2"	17	X	X	25	60

TUBULAR "S" TRAPS, WITH CLEANOUT

Catalog Number	Size	Center To End	Gauge	Satin Nickel	Pol. Chrome	Std. Pkg.	Wgt. Lbs.
328	1 1/4"	20 1/2"	20			25	40
336	1 1/2"	20 1/2"	20	X	X	25	47
329	1 1/4"	20 1/2"	17	X	X	25	52
337	1 1/2"	20 1/2"	17	X	X	25	62

"S" TRAP - FOOTNOTES

- (1) All "S" Traps packed with Low Pattern Flange and Chrome Plated Zinc Die Cast Nuts
- (2) For Reduced Inlet on PC "S" Traps only Suffix Cat. No. RED 1 1/4"x1 1/2" Reducing Polywasher will be supplied.
- (3) Ground Joint "S" Traps not available

"It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into Contract No. W-33-011-00000-1-766 is in accordance with the Contract drawings and specifications and is submitted for the allocated approval, and is submitted Government approval.

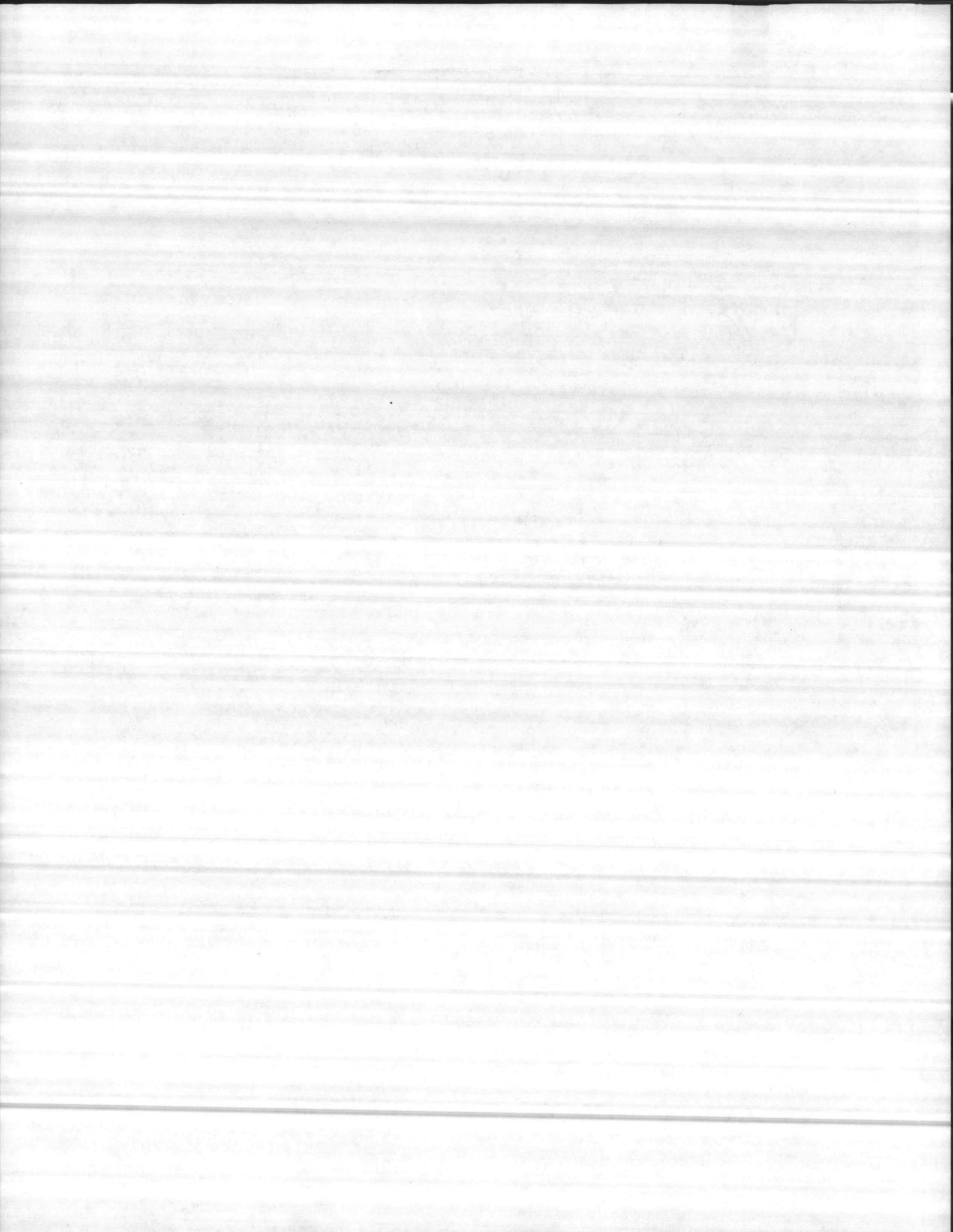
Certified by _____

Date _____

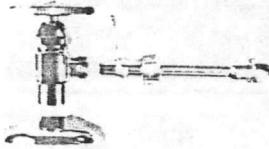
1 Nov 83

P AND S TRAPS AVAILABLE WITH DEEP FLANGE AND BRASS NUTS ON A SPECIAL ORDER BASIS ONLY.

X - FACTORY WAREHOUSE STOCK ITEM



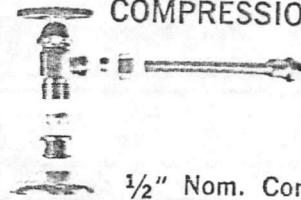
ANGLE SWEAT VALVE



1/2" Nom. Sweat

CATALOG NUMBER	RISER LENGTH	WEIGHT 100 PR.
S5M12	12"	94 lbs.
S5M15	15"	104 lbs.
S5M20	20"	115 lbs.

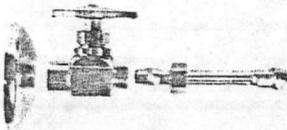
ANGLE DOUBLE COMPRESSION VALVE



1/2" Nom. Compression

CATALOG NUMBER	RISER LENGTH	WEIGHT 100 PR.
C5M12	12"	101 lbs.
C5M15	15"	112 lbs.
C5M20	20"	123 lbs.

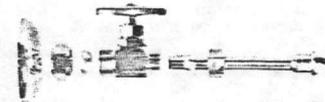
STRAIGHT SWEAT VALVE



1/2" Nom. Sweat

S5M12S	12"	98 lbs.
S5M15S	15"	109 lbs.
S5M20S	20"	120 lbs.
S5M30S	30"	139 lbs.
S5M36S	36"	149 lbs.

STRAIGHT DOUBLE COMPRESSION VALVE



1/2" Nom. Compression

C5M12S	12"	98 lbs.
C5M15S	15"	109 lbs.
C5M20S	20"	120 lbs.
C5M30S	30"	139 lbs.
C5M36S	36"	149 lbs.

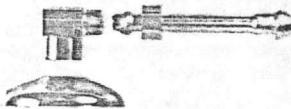
Metal Nose Piece



3/8" O.D. Tube



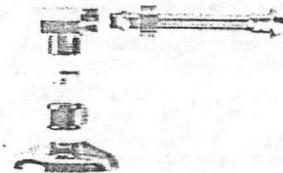
ANGLE SWEAT FITTING



1/2" Nom. Sweat

S2M12	12"	60 lbs.
S2M15	15"	71 lbs.
S2M20	20"	83 lbs.

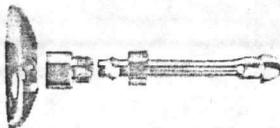
ANGLE DOUBLE COMPRESSION FITTING



1/2" Nom. Compression

C2M12	12"	58 lbs.
C2M15	15"	68 lbs.
C2M20	20"	80 lbs.

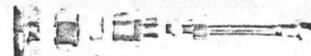
STRAIGHT SWEAT FITTING



1/2" Nom. Sweat

S1M12	12"	50 lbs.
S1M15	15"	60 lbs.
S1M20	20"	67 lbs.
S1M30	30"	91 lbs.
S1M36	36"	101 lbs.

STRAIGHT DOUBLE COMPRESSION FITTING



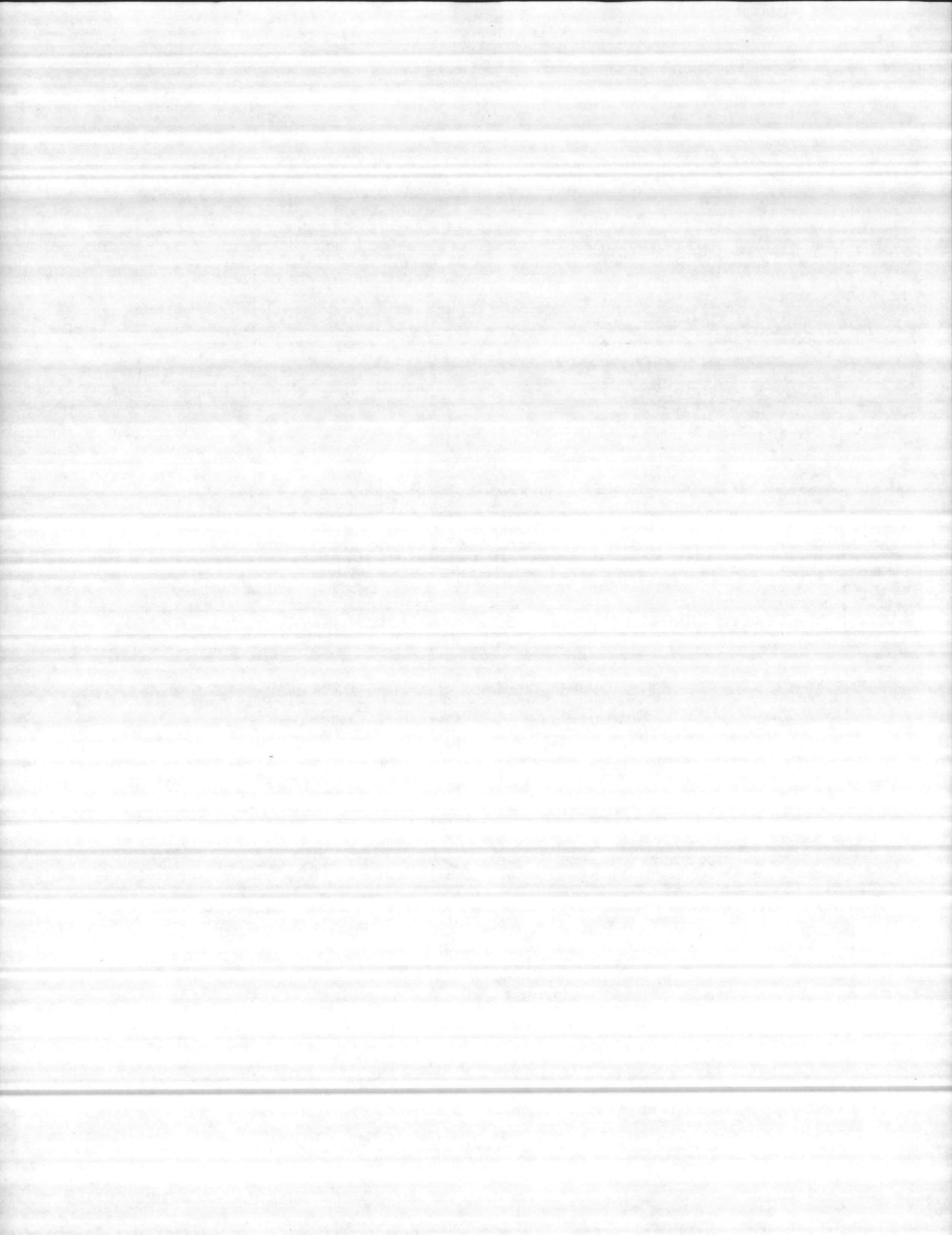
1/2" Nom. Compression

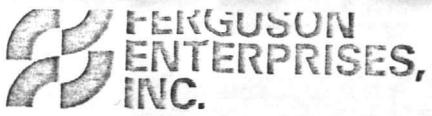
C1M12	12"	54 lbs.
C1M15	15"	65 lbs.
C1M20	20"	77 lbs.
C1M30	30"	95 lbs.
C1M36	36"	105 lbs.

"It is hereby certified that the equipment (material) shown and marked in this submission is that proposed to be incorporated into Contract Number NA-100-1-100-100 in compliance with the Contract drawings and specifications, and is to be installed in the allocated spaces, and is submitted for Government approval.

Certified by _____

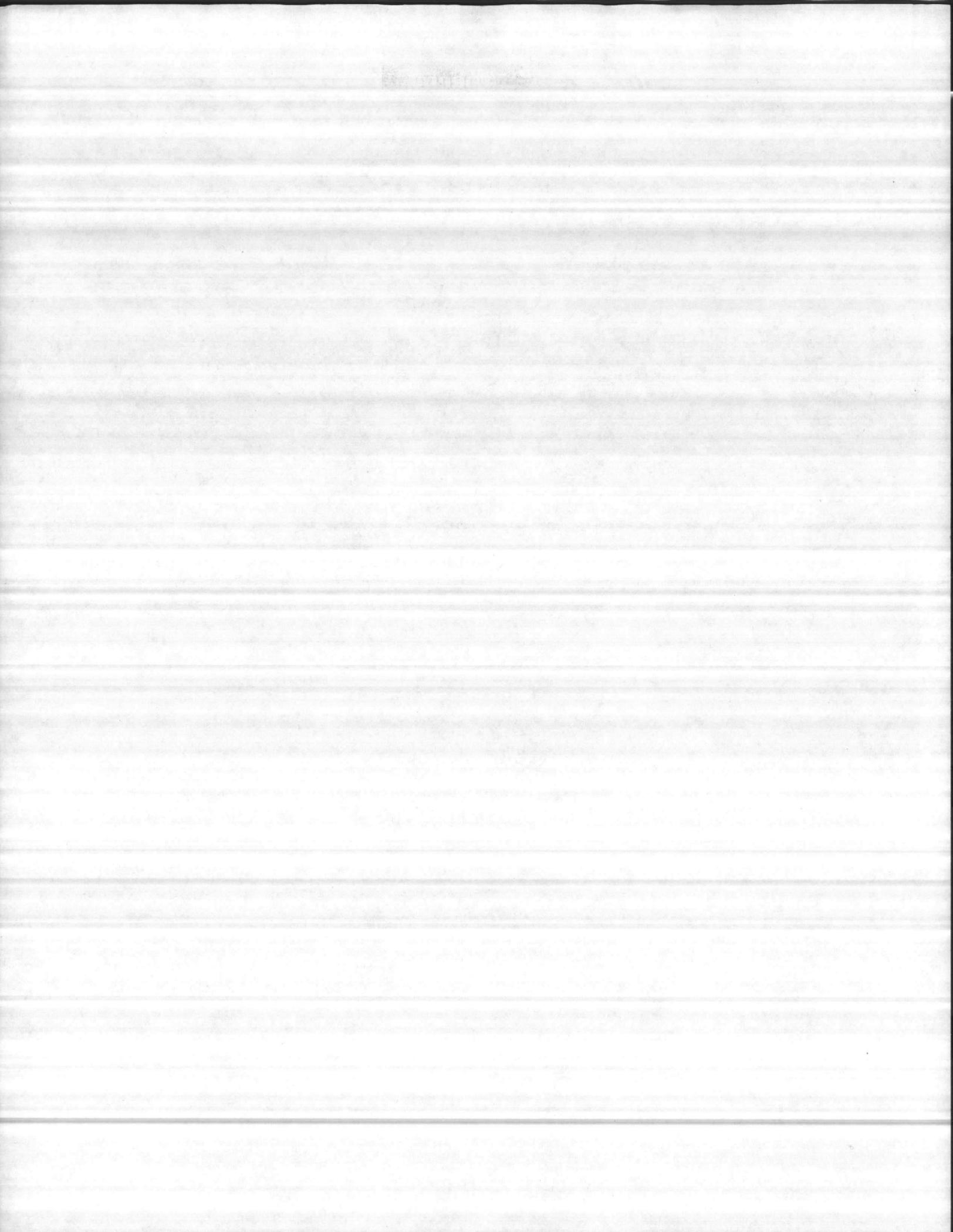
Date 7 Nov 83





825 S 17th Street
Wilmington, NC 28401
Phone (919) 343-1510
Reply to: P O Box 3037
Wilmington, NC 28406

2.4.5 Electric Water Cooler (P-6)



Halsey Taylor

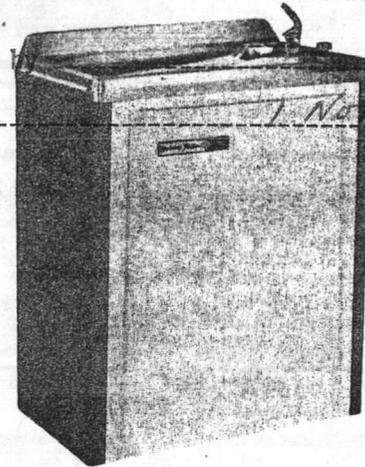


Energy Efficient

"It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into Contract Number N62470-81-C-1705 in compliance with the Contract drawings and specifications, can be installed in the allocated spaces, and is submitted for Government approval.

Certified by _____

Date _____

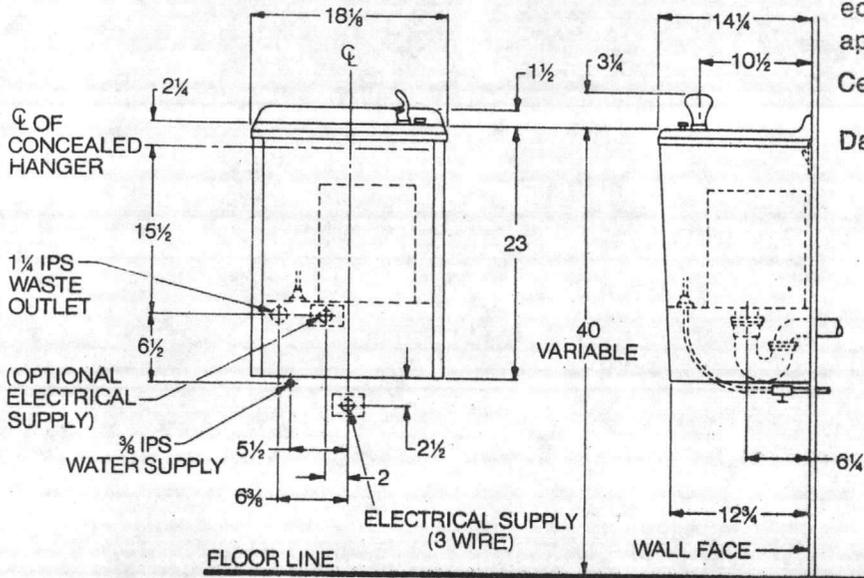


MODELS: SW4A-1 SW6A-1
 SW8A-1 SW14A-1

Finishes and Accessories

(See reverse side.)

Standard finish is Moss Gray enamel.



OP

Compact Wall-Mounted Cooler

CABINET

Manufactured of heavy-gauge steel. Baked-on enamel colors provide a smooth, unbroken, protective coating over the entire cabinet. Resistant to wear, moisture, perspiration, heat, and sunlight. Also available in stainless steel and vinyl-clad steel.

COOLER TOP

Antisplash ridge reduces splatter. Contour design insures proper drainage and prevents standing waste water. Stainless steel top with satin finish resists stains and corrosion and is easy to maintain.

PROJECTOR

Halsey Taylor exclusive two-stream, mound-building projector with nonremovable antisquirt feature insures a faster, more comfortable, and satisfying drink of water. One-piece, chrome-plated unit has integral hood guard design to prevent contamination from other users and airborne deposits.

AUTOMATIC STREAM HEIGHT REGULATOR

This self-closing assembly is located inside cabinet to prevent tampering. Heavy-duty, corrosion-resistant construction. Phosphorous bronze operating springs, and rugged rubber diaphragm. In addition, large free-flowing orifices in the regulator valve resist deposits and prevent clogging. A constant stream height is automatically maintained under line pressures that vary from 20 to 90 psi.

EVAPORATOR/CHILLER WATER

Unique design concept combines counterflow cooling with efficient bonding of the refrigerant and water coils for maximum heat transfer. All-copper construction meets government and commercial sanitation requirements.

PRECOOLER

Increased efficiency boosts capacity by 60%. Double-wall construction has incoming water line coiled around and bonded to cold water drain line. 1" (approx) free-flow area throughout drain line reduces chance of clogging. Special nonliming baffle easily removed for complete access and cleaning to drain.

TEMPERATURE CONTROL

Positive sensing thermostat for controlling temperature of evaporator/chiller storage water. It is factory set at 50° F. Adjustable ±5° F.

FAN MOTOR

Unit bearing self-lubricating type for maintenance-free longer life.

STRUCTURAL SIDE MEMBERS

Rugged structural side members provide a rigid, strong frame that allows easy removal of all panels for maximum serviceability and optional finish changes.

CONDENSER

Copper/aluminum construction with Venturi air flow. Molded shroud prevents warpage caused by high humidity conditions.

INSULATION SYSTEM

Evaporator/chiller employs totally encapsulated one-piece construction of high efficiency EPS for maximum insulating characteristics.

REFRIGERATION SYSTEM

System balance, lower energy usage, and longer life assured by utilizing high displacement compressor, counterflow cooling evaporator/chiller, efficient

capillary sizing, large capacity dryer-strainer, fan-cooled condenser with maximum heat exchange, and Venturi air flow.

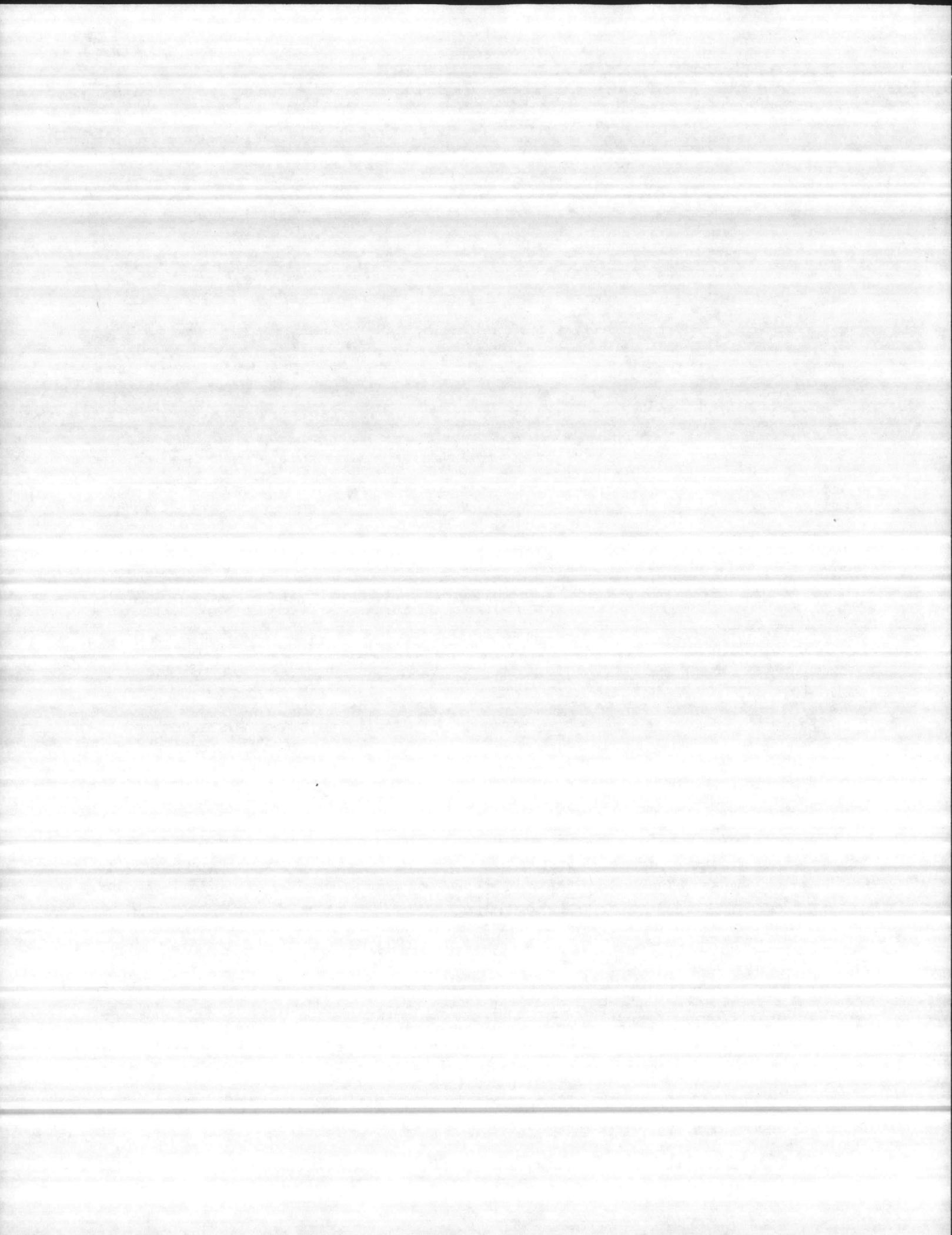
Hermetically sealed, positive start compressor with lifetime lubrication and built-in overload protection. System completely sealed after deep evacuation, dehydration and pressure testing at 235 psig. Protected by Halsey Taylor 5-year warranty plus additional 5-year material warranty on evaporator/chiller.

TS

SUGGESTED SPECIFICATIONS

Shall deliver (.....) GPH of 50° water at 90° ambient and 80° inlet water. Top shall be stainless steel with removable drain strainer. Precooler baffle shall be removable for maximum access to drain interior. Projector shall be two-stream, mound-building type. Separate valve and diaphragm automatic stream regulator shall be mounted within cabinet. Refrigeration system shall employ high efficiency, positive start compressor, nonpressurized counterflow cooling coil with totally encapsulated EPS insulation and to be controlled by positive sensing thermostat. Cabinet shall utilize rigid interior frame concept to permit easy removal of exterior panels. Shall be certified by ARI to meet Standard 1010-78. Cooler shall be Halsey Taylor Model (.....).

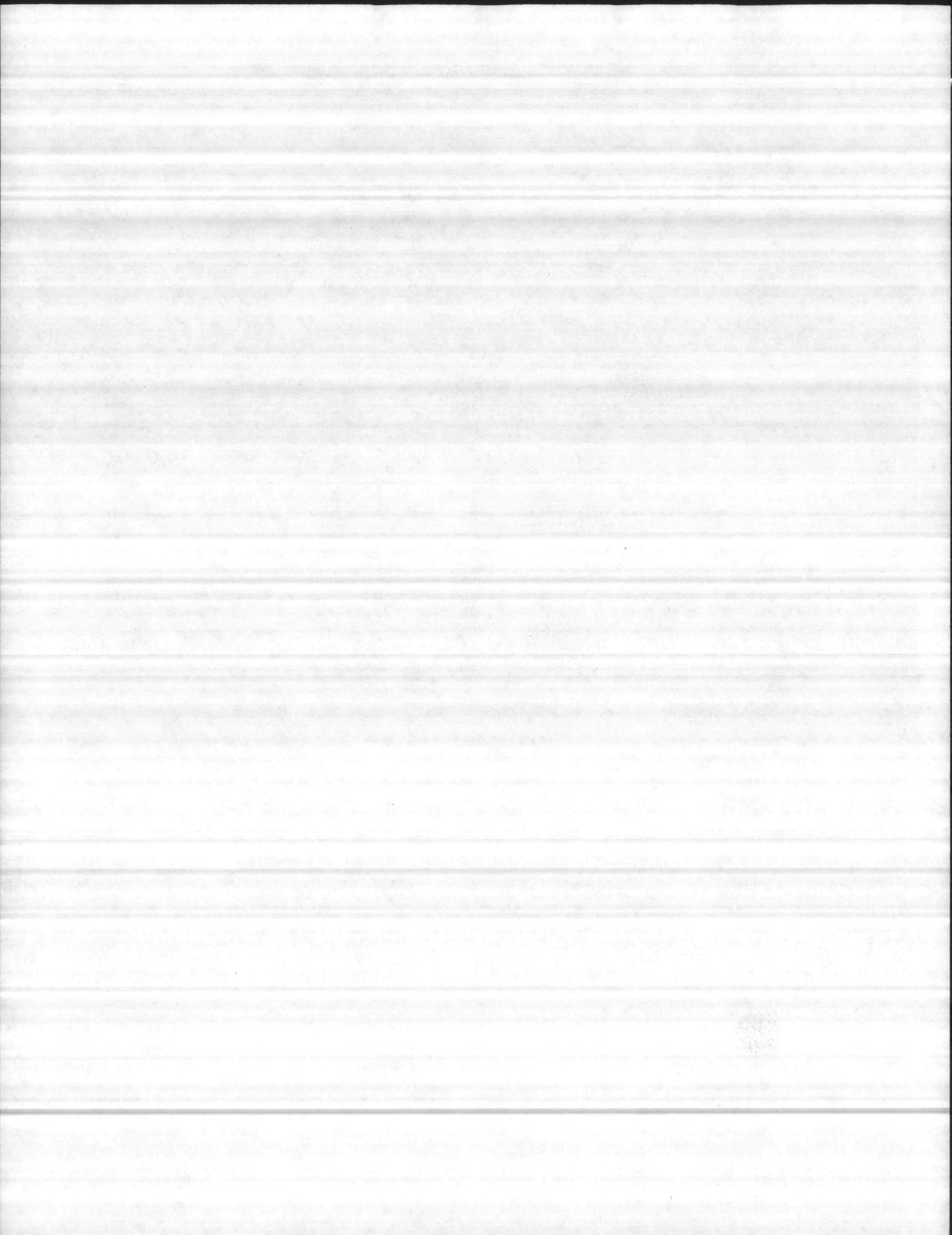
Halsey Taylor





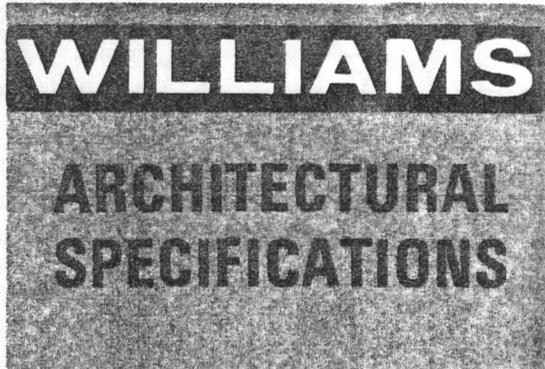
825 S 17th Street
Wilmington, NC 28401
Phone (919) 343-1510
Reply to P.O. Box 3037
Wilmington, NC 28406

2.4.6 Shower Supply Fittings (P-7)



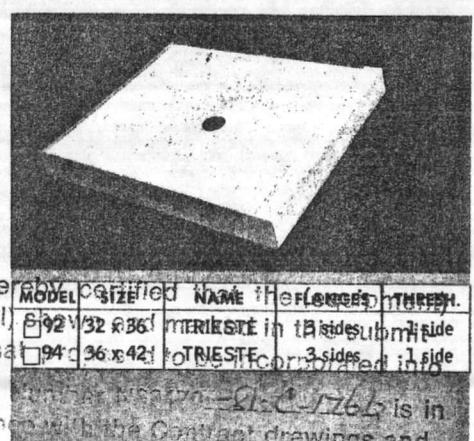
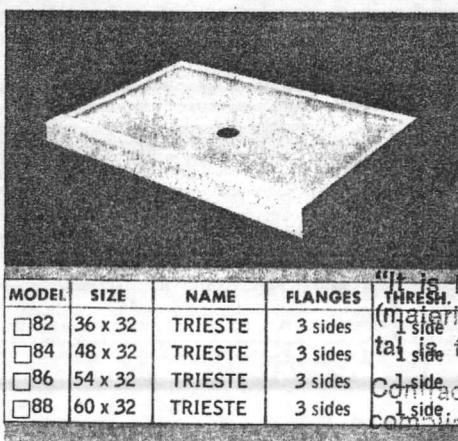
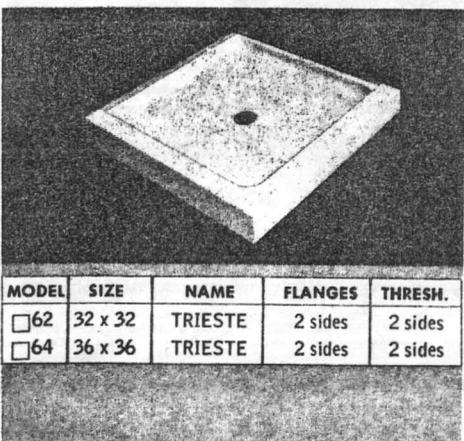
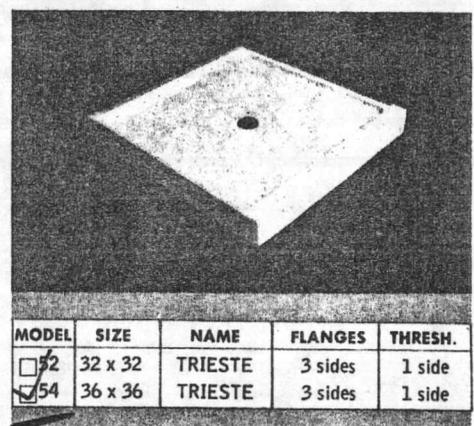
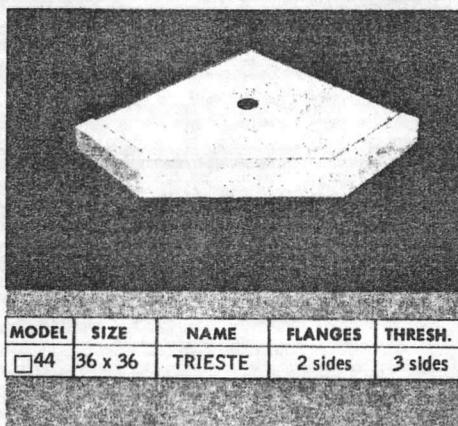
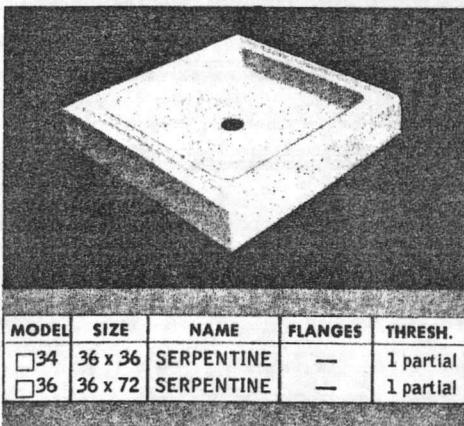
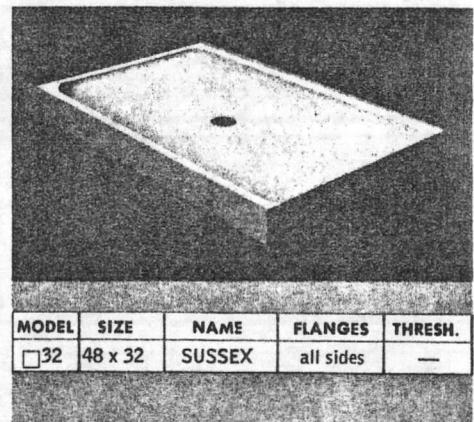
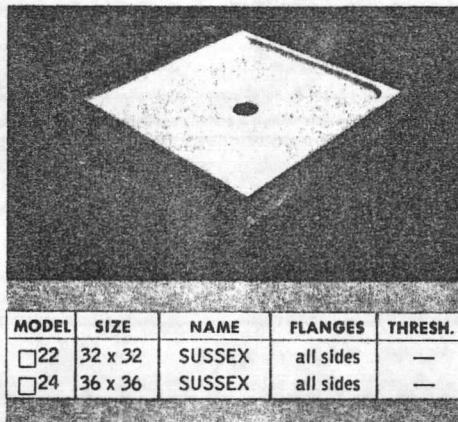
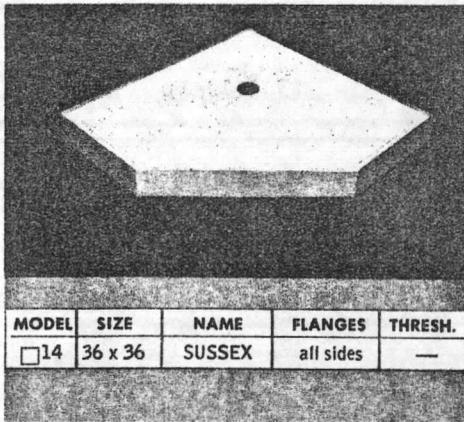
Sussex Serpentine and Trieste

SHOWER FLOOR



Model No. () Size ()

Shower Floor shall be of Williams precast terrazzo. Terrazzo shall be made of black and white marble chips cast in white portland cement to produce a compressive strength of not less than 3000 PSI, seven days after casting. Terrazzo surface shall be ground, polished, grouted and sealed to resist stain. Flange, cast integral shall be of galvanized-bonderized steel and shall extend not less than one inch above the shoulder. Shoulder shall be not less than one inch high and not less than one and one-quarter inches wide. Drain body shall be brass, cast integral, and shall provide for a caulked lead connection not less than one inch deep to a two inch pipe. Removable type strainer plate shall be made of stainless steel.

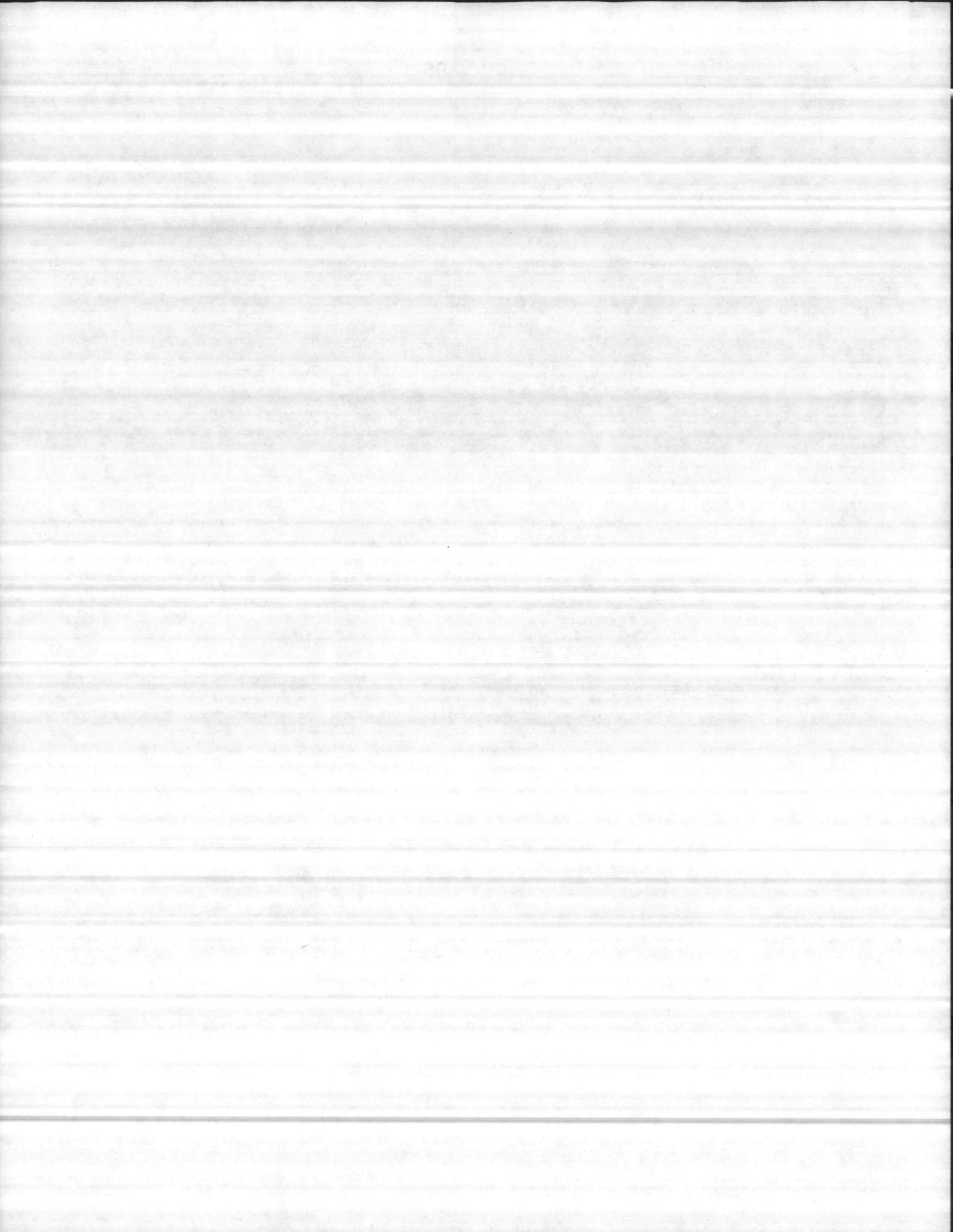


It is hereby certified that the material specified in the above schedule is in accordance with the Contract drawings and specifications, and is submitted for Government approval.

JOB
LOCATION

ENGINEER
CONTRACTOR

Certified by _____
Date 1 Nov 83



TO BE FURNISHED WITH SHOWER ARM AND FLANGE IN LIEU OF NU-ARM BRACKET SHOWN



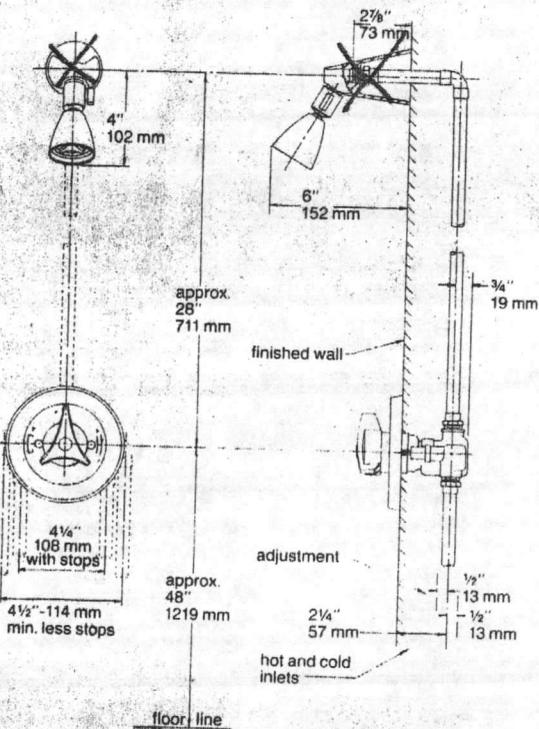
96-1

TEMPROL Pressure-Balancing valve with maximum temperature limit stop. Shower head with thumb operated volume control in ball joint and NU-ARM head bracket.

Weight 4¾ lbs.

Modifications

- Suffix X Angle stops (add 1 lb.)
- Suffix LB Lever handle (**Brass**)
- Suffix 2 2 GPM flow restrictor
- Suffix 3 3 GPM flow restrictor
- Suffix 4 4 GPM flow restrictor
- Suffix LCT Acrylic knob



All floor to center dimensions optional. Concealed pipe and fittings not furnished by manufacturer.

Job
 Location
 Architect
 Engineer
 Contractor
 Representative

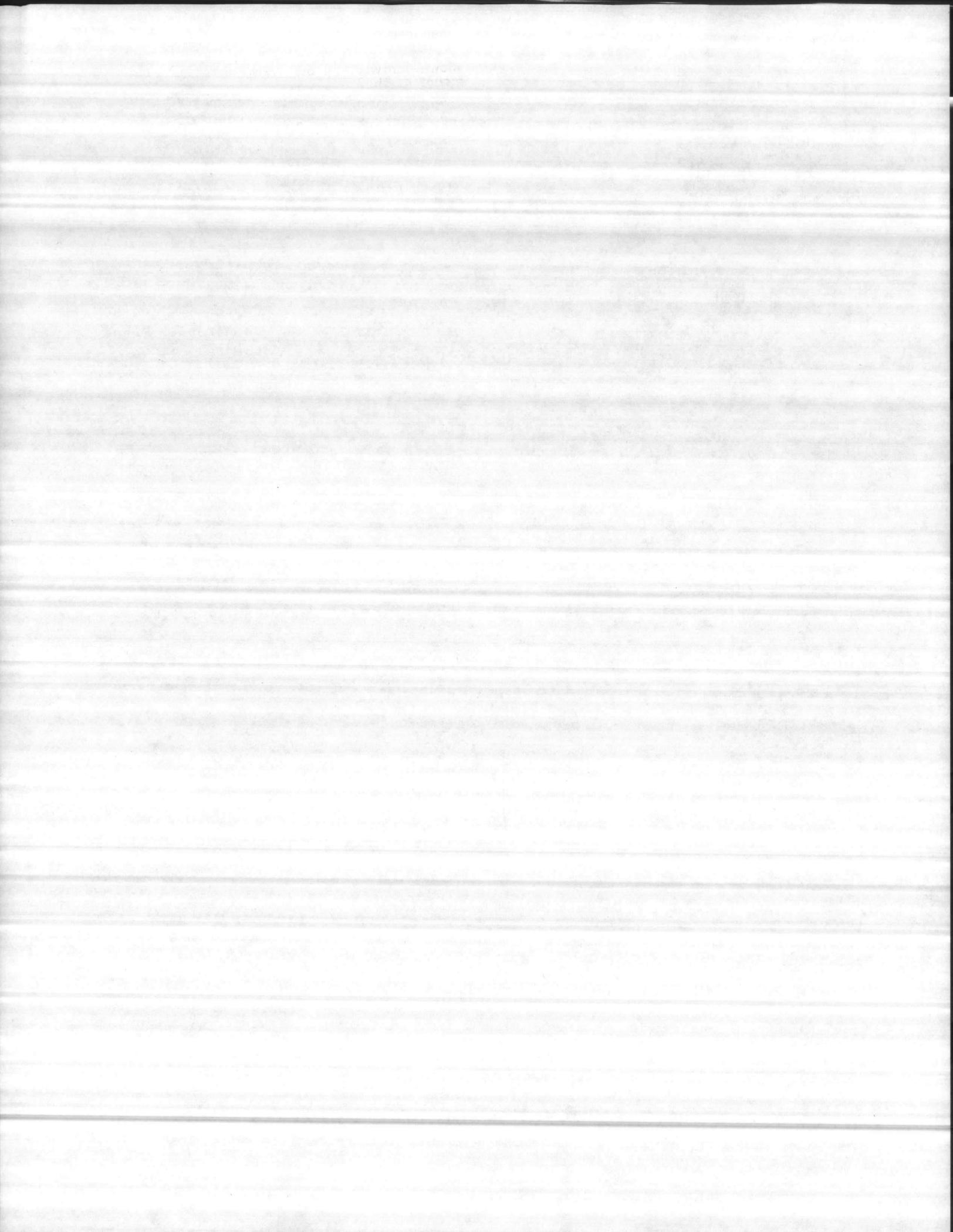
Modifications

Received and approved by the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into Contract Number 81-C-1766, is in compliance with the Contract drawings and specifications and is installed in the allocated space, and is submitted Government approval.

Certified by _____

Date _____

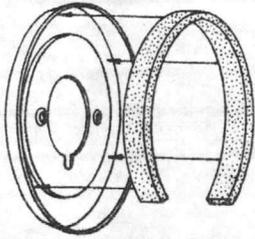
Simmons INDUSTRIES INC.



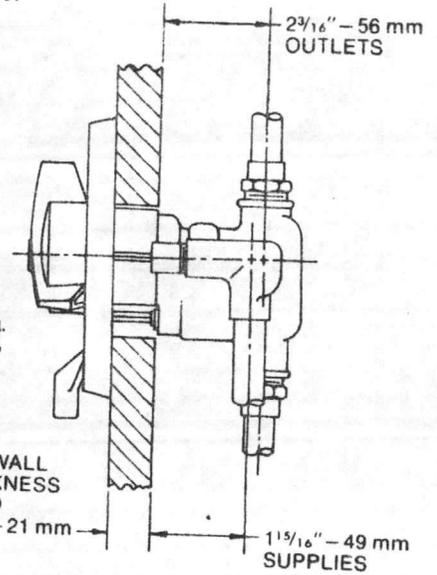
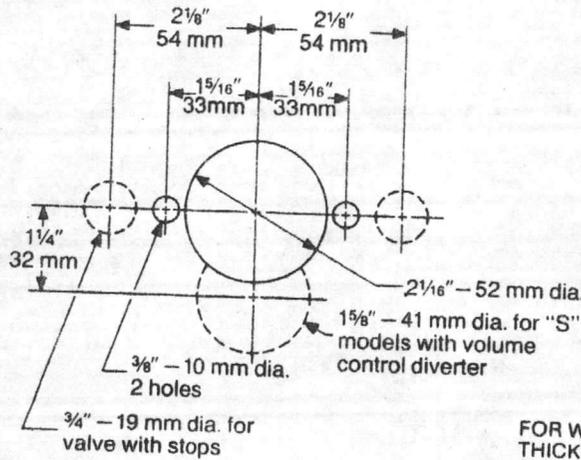
When installing Temptrol in fiberglass or panel walls, use dimensions as shown for wall cut out. Valve will mount as shown in diagram. If full scale template is desired, write factory for Drawing Number TT-86.

CUTCHEON GASKET: Position gasket in back side of escutcheon with open end at bottom as shown.

The use of this gasket should not preclude sealing valve body in wall as directed in installation instructions, step 2.



BOTTOM



INDIVIDUAL PARTS

(For Parts Not Shown See Composite Parts List)

Part No. Description

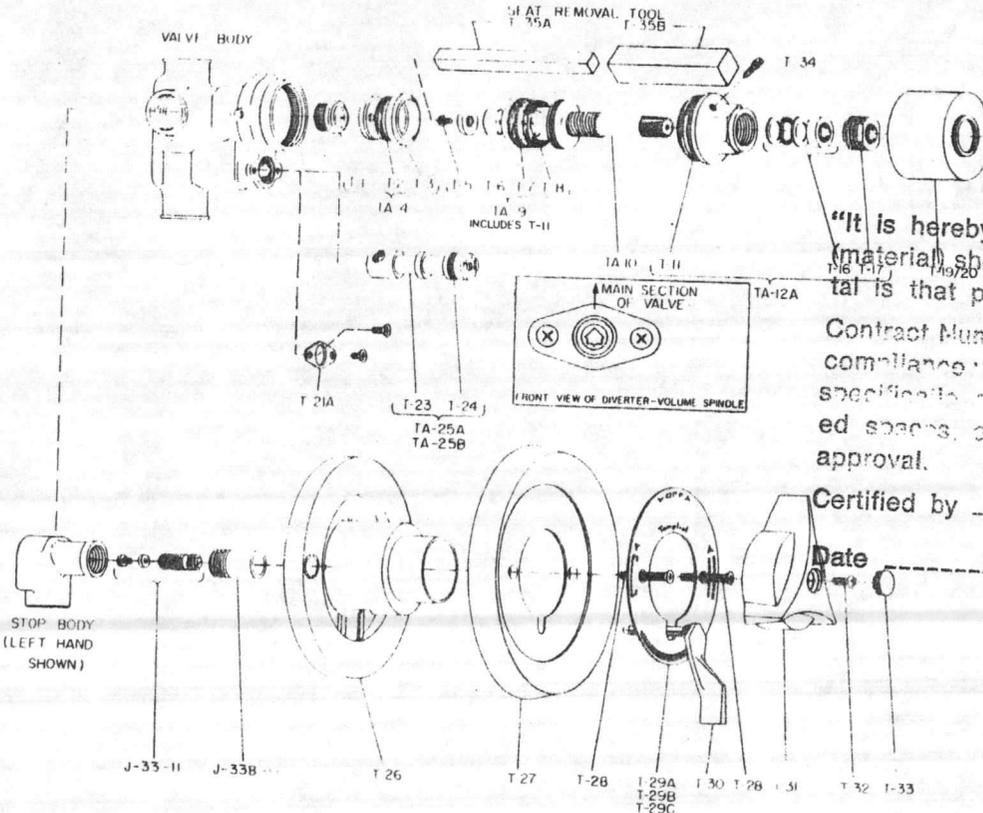
- T-1 HOT RENEWABLE SEAT
- T-2 COLD SEAT O-RING
- T-3 COLD RENEWABLE SEAT
- T-5 HOT WASHER SCREW
- T-6 HOT WASHER
- T-7 COLD WASHER RETAINER
- T-8 COLD WASHER

- TA-10 FLOW CONTROL SPINDLE
- T-11 CAP GASKET
- T-12A CAP ASSEMBLY
- T-16 PACKING, O-RING & WASHER
- T-17 PACKING NUT
- T19/20 DOME COVER & LOCK NUT
- T-21A HOLD DOWN WASHER W/SCREWS (2 HOLES)
- T-23 DIVERTER SPINDLE (MODEL A)
- T-23 DIVERTER SPINDLE (MODEL B)
- T-24 SPINDLE O-RING
- T-27 ESCUTCHEON
- T-28 ESCUTCHEON SCREWS (TWO)

- T-29A DIAL (MODEL A)
- T-29B DIAL (MODEL B)
- T-29C DIAL (MODEL C)
- T-30 DIVERTER - VOLUME HANDLE
- T-31 TEMPERATURE CONTROL HANDLE
- T-32 HANDLE SCREW
- T-33 PLUG BUTTON
- T-34 LIMIT STOP WITH O-RING
- T-35A HOT SEAT REMOVAL TOOL
- T-35B COLD SEAT REMOVAL TOOL
- J-33-II SPINDLE ASSEMBLY
- J-33B-II PLASTER SHIELD

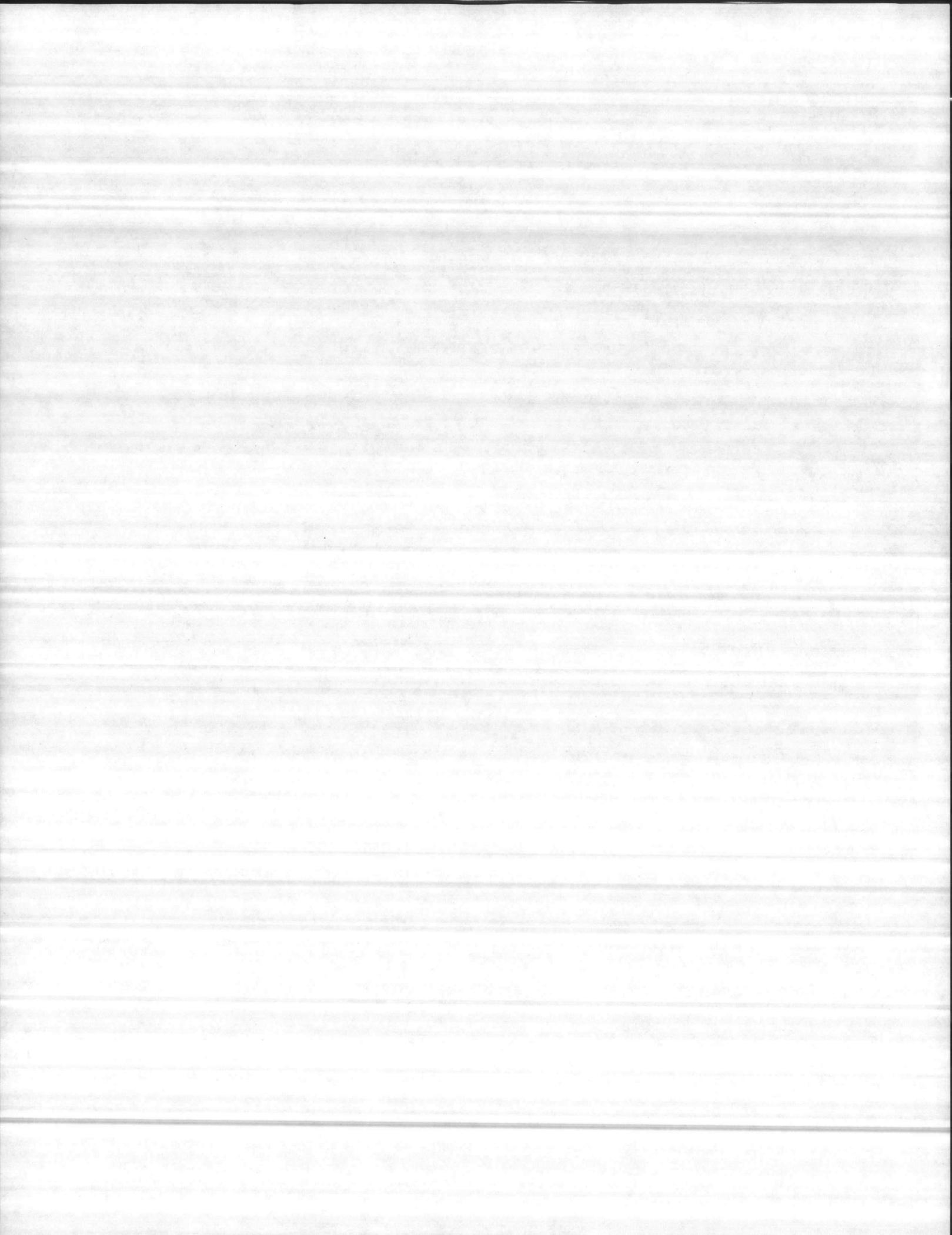
COMPOSITE PARTS

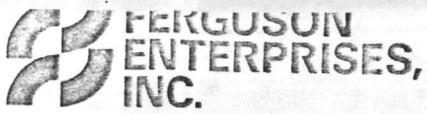
- | PART NO. | DESCRIPTION |
|----------|---|
| TA-4 | HOT SEAT (T-1), COLD SEAT (T-3), COLD SEAT O-RING (T-2) |
| TA-9 | HOT WASHER SCREW (T-5), HOT WASHER (T-6), COLD WATER RETAINER (T-7), COLD WASHER (T-8), CAP GASKET (T-11) |
| TA-10 | SPINDLE ASSEMBLY |
| TA-25-A | DIVERTER-VOLUME SPINDLE (T-23), O-RING (T-24) - FOR MODEL A VALVE - COLOR BEIGE OR GREY |
| TA-25-B | VOLUME SPINDLE (T-23), O-RING (T-24) - FOR MODEL B VALVE - COLOR BLACK |



"It is hereby certified that the (equipment material) shown and marked in this submittal is that proposed to be incorporated into Contract Number N00170-81-C-1766, in compliance with the Contract drawings and specifications and is in accordance with the allocated specs, and is submitted Government approval.

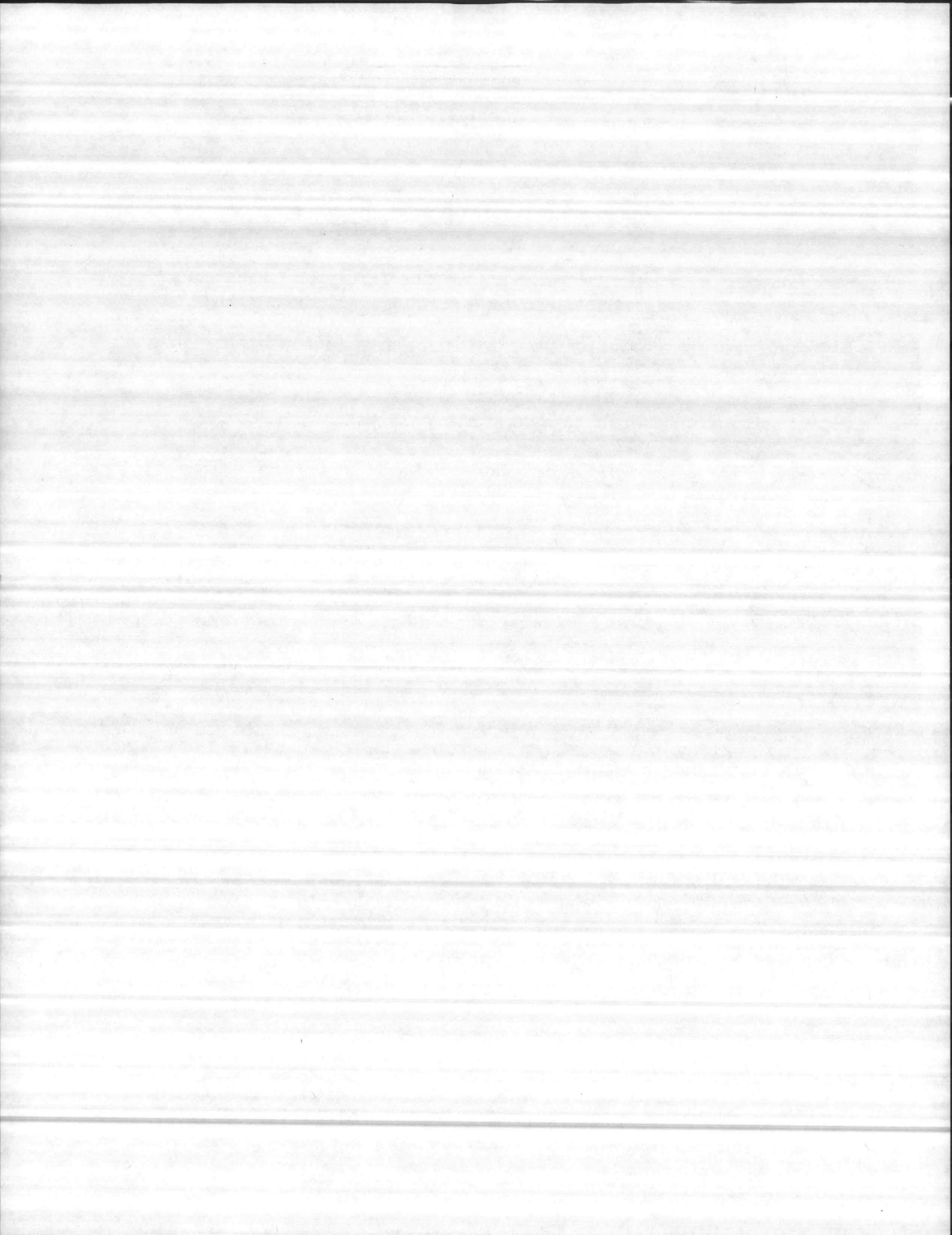
Certified by _____ Date 1 Nov 83





825 S 17th Street
Wilmington, NC 28401
Phone (919) 343-1510
Reply to P O Box 3037
Wilmington, NC 28406

Valves & Strainers

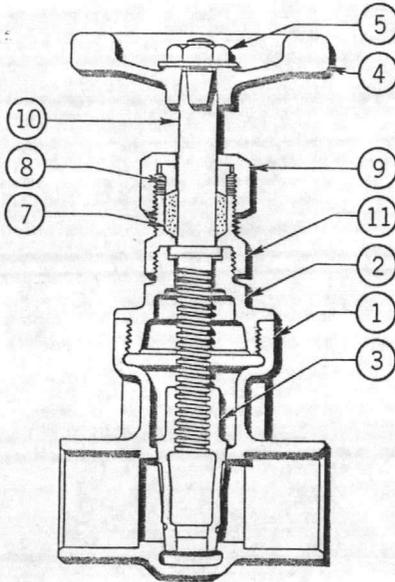


**FIGS:
B-103
B-104**

SEE PAGE 34 FOR PRESSURE-TEMPERATURE RATING.

SERVICE FEATURES

Recommended for general purpose shutoff services, fully open or closed.
Nonrising stem particularly suitable for installation in pipelines with low headroom.



B-104

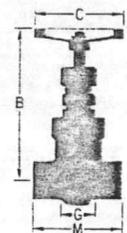
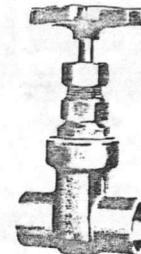
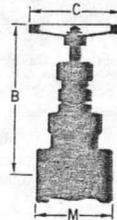
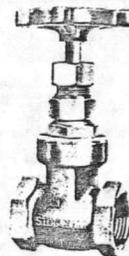
NO.	DESCRIPTION	MATERIAL	ASTM SPEC.
1	BODY	BRONZE	B-62
2	BONNET	BRONZE	B-62
3	DISC	BRONZE	B-62
4	HANDWHEEL	MALL. IRON	A-197
5	HANDWHEEL NUT	STEEL-ZINC PLATED	
7	PACKING	TEFLON® ASBESTOS	
8	PKG. GLAND	BRASS (½-3)	
9	PKG. NUT	BRONZE	B-62
10	STEM	COPPER-SILICON ALLOY	B-371 Alloy 694
11	STUFFING BOX	BRONZE	B-62

"It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into Contract Number N62470-81-C-1766, is in compliance with the Contract drawings and specifications, can be installed in the allocated spaces, and is submitted Government approval.

Certified by _____

Date _____

Jae
1 Nov 83



B-103, THREADED

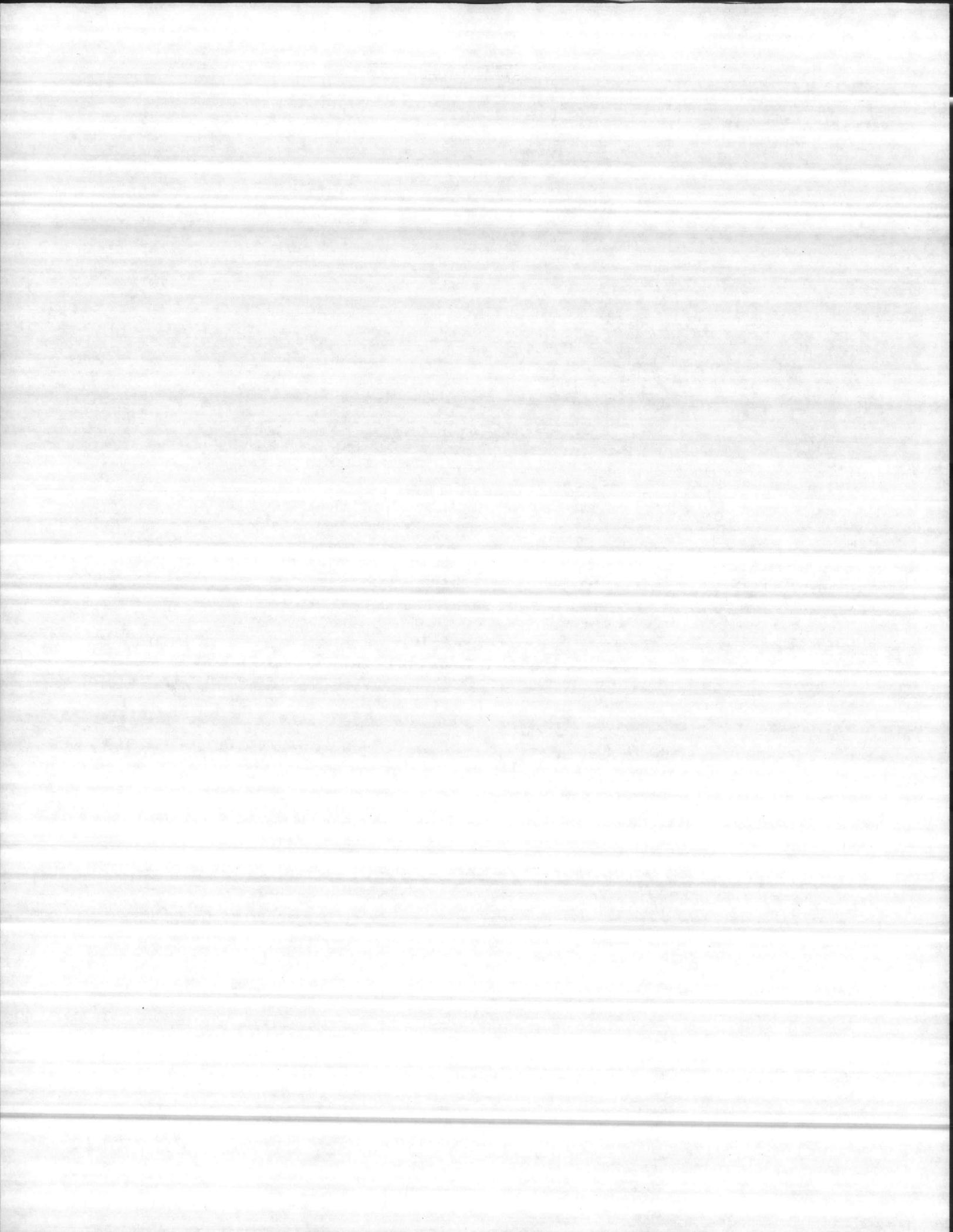
SIZE	WGT.	B	C	M
¼	.5	3¼ ₁₆	1¼	1¼
⅜	.5	3¼ ₁₆	1¼	1¼
½	.7	3½	2	1¾
¾	1.1	4⅞	2¾	2¼
1	1.8	4⅞	2¾	2½
1¼	2.6	5½	3	2⅞
1½	3.5	6¾	3¼	3¼
2	5.4	7¾ ₁₆	3¾	3¾
2½	8.4	8½ ₁₆	4½	4
3	12	9½ ₁₆	5	4¾

†B-104, SOLDER ENDS

SIZE	WGT.	B	C	G*	M
¾	.5	3¼ ₁₆	1¼	23 ₃₂	1½ ₃₂
½	.5	3½	2	¾	1¾
¾	1.0	4⅞	2¾	31 ₃₂	2½ ₃₂
1	1.6	4⅞	2¾	1	2½ ₁₆
1¼	2.3	5½	3	1¾ ₁₆	3½
1½	3.3	6¾	3¼	1¾ ₁₆	3½
2	5.2	7¾ ₁₆	3¾	1¾ ₁₆	4½
2½	7.9	8½ ₁₆	4½	1¾	4¾ ₁₆
3	11	9½ ₁₆	5	1¾	5¼ ₁₆

†Saturated Steam Pressure for Solder End Valves Should Not Exceed 15 PSI.

*Piping Make-Up Dimension

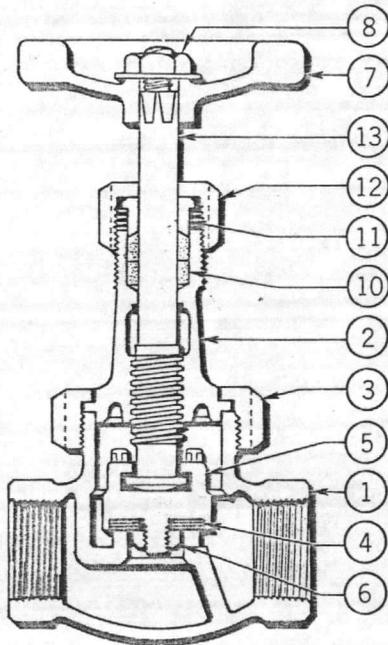


**FIGS:
B-22
B-222
B-24**

SEE PAGE 34 FOR PRESSURE-TEMPERATURE RATING.

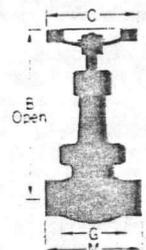
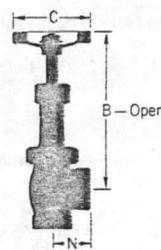
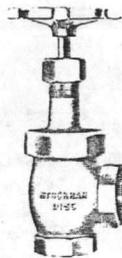
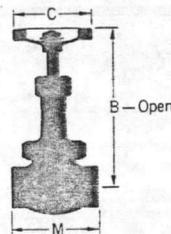
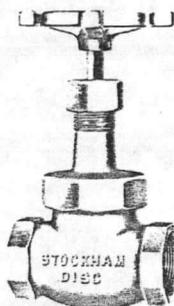
SERVICE FEATURES

Teflon® disc at no extra cost is an industry first. • Union bonnet provides greater strength and gives longer service than screwed bonnet. • Choice of threaded or solder end globe valves with union bonnet offered.



NO.	DESCRIPTION	MATERIAL	ASTM SPEC.
1	BODY	BRONZE	B-62
2	BONNET	BRONZE	B-62
3	BONNET RING	BRONZE	B-62
4	DISC	TEFLON®	
5	DISC HOLDER	BRASS (1/8-1/2)	B-16
		BRONZE (3/4-3)	B-62
6	DISC NUT	BRASS (1/8-1)	B-16
		BRONZE (1 1/4-3)	B-62
7	HANDWHEEL	MALL. IRON	A-197
8	HANDWHEEL NUT	STEEL-ZINC PLATED	
10	PACKING	TEFLON® IMPREGNATED ASBESTOS	
11	PKG. GLAND	BRASS	
12	PKG. NUT	BRONZE	B-62
13	STEM	COPPER-SILICON ALLOY	B-371 Alloy 694

B-22



B-22, GLOBE, THREADED
B-222, ANGLE, THREADED

SIZE	WGT.	B	C	M	N
1/8	.9	4	2 1/4	2 1/8	1 1/2
1/4	.9	4	2 1/4	2 1/8	1 1/2
3/8	1.3	4 1/16	2 1/4	2 7/16	1 1/8
1/2	1.8	5 9/32	2 3/4	2 3/4	1 1/4
3/4	2.8	6 3/32	2 3/4	3 1/4	1 1/2
1	3.8	6 3/4	3 1/4	3 3/4	1 3/4
1 1/4	5.9	7 7/8	4	4 1/2	2
1 1/2	8.5	8 1/2	4 3/4	5 1/4	2 1/4
2	14	9 25/32	5 1/2	6	2 3/4
2 1/2	22	10 13/16	6	7	3
3	36	12 5/32	7	8 1/4	3 3/4

†B-24, GLOBE, SOLDER ENDS

SIZE	WGT.	B	C	G*	M
3/8	1.3	4 1/16	2 1/4	1 15/16	2 11/16
1/2	1.8	5 9/32	2 3/4	2	3
3/4	2.6	6 3/32	2 3/4	2 5/8	4 1/8
1	4.0	6 3/4	3 1/4	3	4 13/16
1 1/4	6.6	7 7/8	4	3 3/16	5 1/4
1 1/2	8.8	8 1/2	4 3/4	4 3/16	6 3/8
2	13	9 25/32	5 1/2	5 1/16	7 3/4
2 1/2	22	10 13/16	6	6 3/16	9 1/8
3	32	12 5/32	7	7 5/16	10 5/8

It is hereby certified that the (equipment) (material) shown and marked in this submit- tal is the proposed to be incorporated into Contract Number N82470-SI-C-1766 is in compliance with the Contract drawings and specifications. can be installed in the allocated spaces, and is submitted Government approval.

Certified by Jue

STOCKHAM VALVES AND FITTINGS

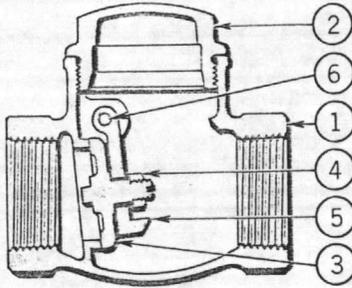
Date 1 Nov 63

SEE PAGE 34 FOR PRESSURE-TEMPERATURE RATING.

FIGS:
B-309
B-319

SERVICE FEATURES

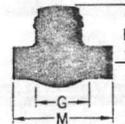
Recommended for prevention of backflow in general services. • Solder ends recommended for nonflammable liquids or gases with Types K, L, and M copper tubing.



B-319

NO.	DESCRIPTION	MATERIAL	ASTM SPEC.
1	BODY	BRONZE	B-62
2	CAP	BRONZE	B-62
3	DISC	BRASS (1/4-1/2)	B-16
		BRONZE (3/4-3)	B-62
4	DISC NUT	BRASS	B-16
5	HINGE	BRONZE	B-62
6	HINGE PIN	BRASS	B-16
*7	SIDE PLUG	BRASS	B-16

*Not Shown



†B-309, SOLDER ENDS

SIZE	WGT.	B	G*	M
3/8	.4	1 13/32	1 1/16	2 1/16
1/2	.5	1 19/32	1 7/16	2 7/16
3/4	.9	1 57/64	1 3/4	3 1/4
1	1.4	2 1/4	2	3 13/16
1 1/4	2.0	2 19/32	2 5/16	4 1/4
1 1/2	3.4	3 1/32	2 11/16	4 7/8
2	4.8	3 1/2	3 5/16	6
2 1/2	9.3	4 5/32	4 3/16	6 3/16
3	13.6	4 13/16	4 7/8	7 1/8

B-319, THREADED

SIZE	WGT.	B	M
1/4	.5	1 13/32	2 1/16
3/8	.5	1 13/32	2 1/16
1/2	.7	1 19/32	2 7/16
3/4	1.1	1 29/32	2 13/16
1	1.7	2 1/4	3 3/16
1 1/4	2.7	2 19/32	3 3/4
1 1/2	3.9	3 1/32	4 3/16
2	6.1	3 1/2	5 1/8
2 1/2	11	4 5/32	6 3/16
3	17	4 13/16	7 1/8

†Saturated Steam Pressure for Solder End Valves Should Not Exceed 15 PSI.

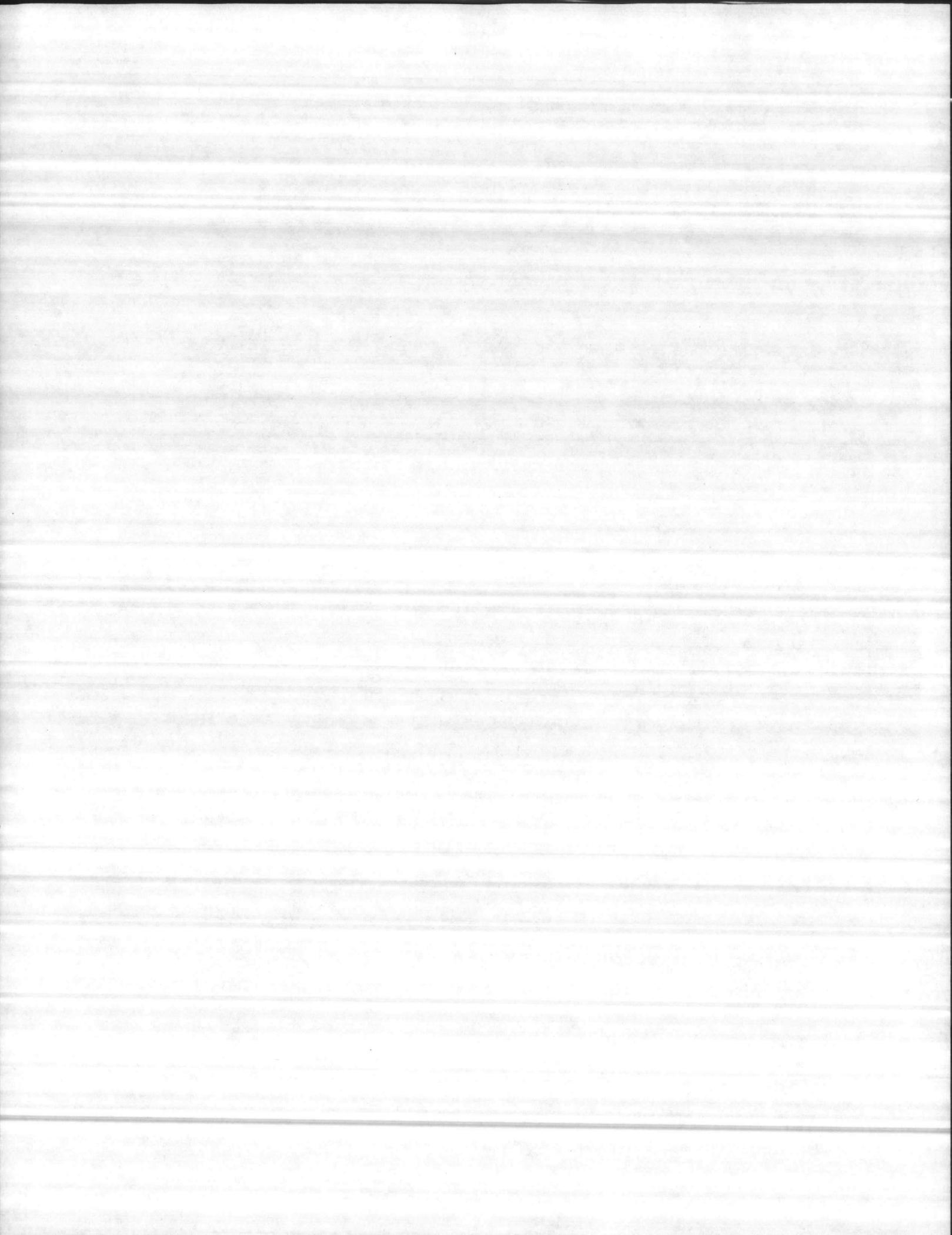
*Piping Make-Up Dimension

"It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into

Contract Number W90170-81-C-1766, is in compliance with the contract drawings and specifications and is approved for the allocated space, and is submitted for Government approval.

Certified by [Signature]

Date 1 Nov 83



bronze ball valves

FURNISH
"FULL-PORT"
DESIGN

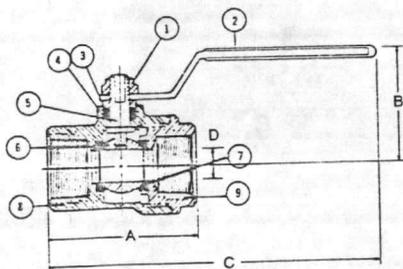
"RING BALL" Design • Conventional Port • Bronze Trim
Two-Piece Construction • Blowout-Proof Stem
125 PSI Saturated Steam
400 PSI Non-Shock Cold Water, Oil or Gas

Federal Specifications: WW-V-35, Type II, Class A, Style 3

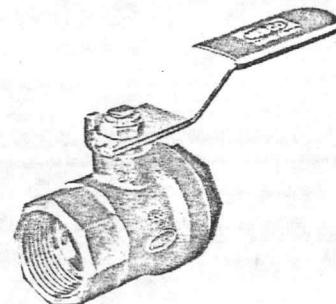
MATERIAL LIST

PART	SPECIFICATION
1. Handle Nut	Zinc Plated Steel
2. Handle	Zinc Plated Steel, Plastisol Coated
3. Packing Gland	Brass ASTM B-16
4. Packing	TFE Impregnated Asbestos
5. Stem	Silicon Bronze ASTM B-371 Alloy 694
6. Ball*	Cast Red Bronze ASTM B-584 Alloy 845
7. Seat Ring (2)	TFE
8. Body	Cast Red Bronze ASTM B-584 Alloy 845
9. Body End Piece	Cast Red Bronze ASTM B-584 Alloy 845

*Ball Material on 1/2", and 3/4" sizes is ASTM B-16.



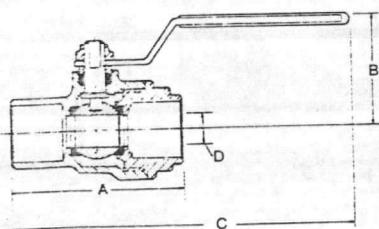
T-580 F.S.P.S. to F.S.P.S.



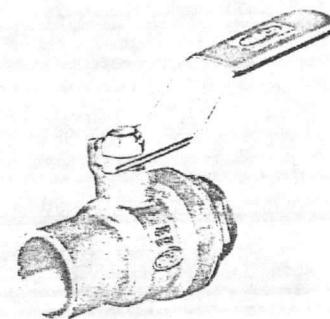
T-580
threaded
TFE Seats and Seals

DIMENSIONS — WEIGHTS — QUANTITIES

Size	Dim. A		Dim. B	Dim. C		Dim. D	Approx. Net WL	Master Ctn. Qty.	
	T-580	S-580		T-580	S-580				
1/2	2	1 15/16	1 1/16	4 1/8	4 7/32	3/8	.5	.5	100
3/4	2 9/32	2 5/8	1 23/32	5	5 1/16	1/2	.7	.7	100
1	2 7/8	3 1/32	2 1/16	6 1/16	6 9/32	3/4	1.3	1.3	50
1 1/4	3 13/32	3 13/16	2 5/16	6 11/32	6 9/16	1	1.9	1.8	25
1 1/2	3 3/4	4 1/4	2 13/16	8 9/16	8 13/16	1 1/4	2.9	3.0	10
2	4 7/16	5 7/32	3 1/16	8 7/8	9 1/4	1 1/2	4.5	4.8	10



S-580 Copper to Copper



S-580
solder

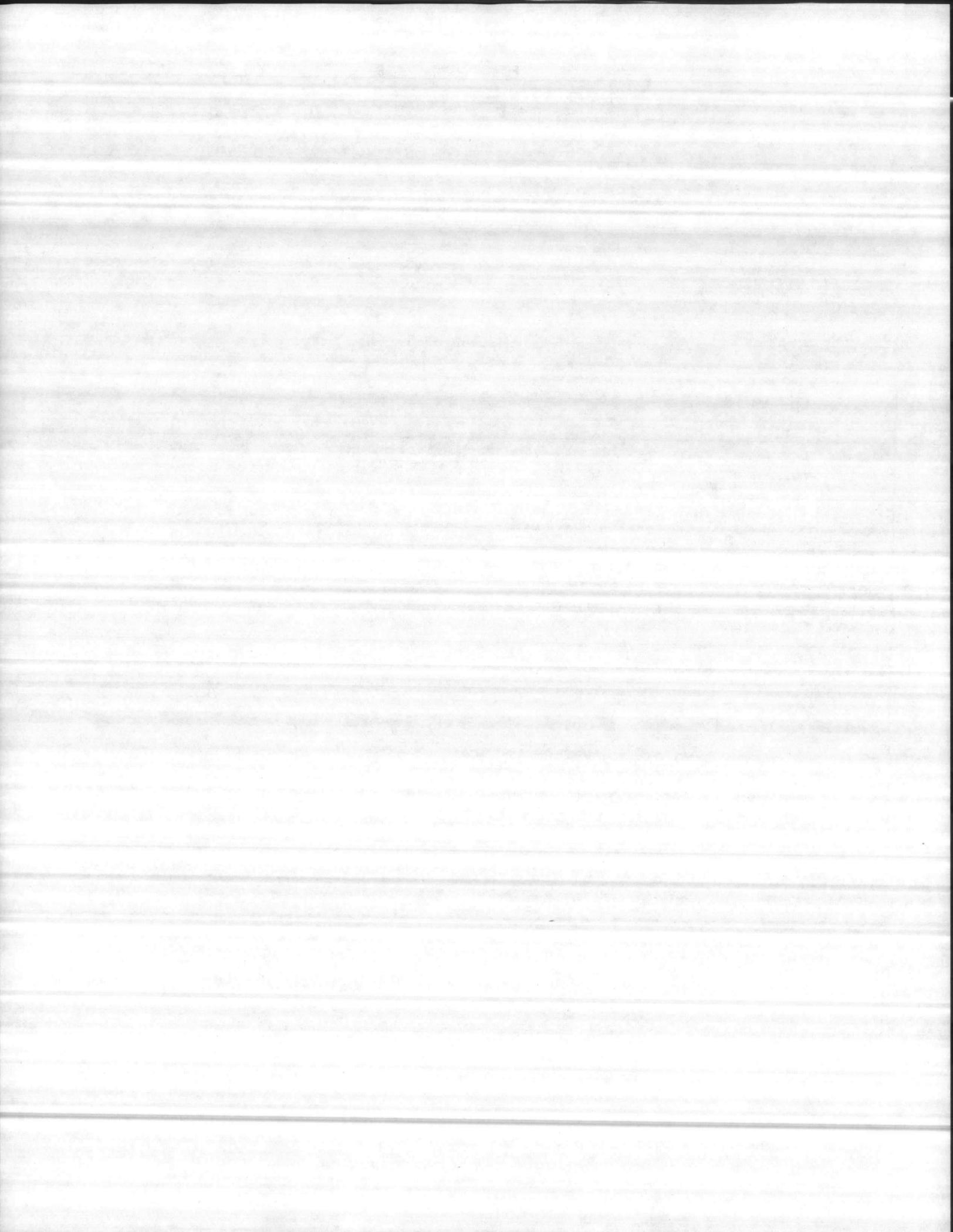
TFE Seats and Seals

"It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into Contract Number W-5570-81-C-1766 is in compliance with the drawings and specifications of the contract. All heated spaces, and is a limited Government approval.

Certified by Jan
Date 1 Nov 83

NOTE: For specific pressure/temperature relationships refer to page 64.

NIBCO INC., ELKHART, INDIANA



SEMI-STEEL SCREWED STRAINERS



STYLE B

250 lb. semi-steel body with bushing

BODY: ASTM A126-61T CLASS B
BUSHING MALLEABLE IRON

WORKING PRESSURES — NON SHOCK

250 Lb. Screwed Steam.....250 PSI — 406° F.
Water, Oil, Gas.....400 PSI — 150° F.

RECOMMENDED SERVICE:

The KECKLEY STYLE B 250 Lb. "Y" Pattern Strainers provides inexpensive protection to Pumps, Burners, Nozzles, Pressure Reducing Valves, Pressure Relief Valves, Traps, Meters, Turbines and similar equipment from the damaging effects of foreign materials commonly found in pipe lines.

CONSTRUCTION FEATURES:

The KECKLEY Style B Strainers with shell coring provides a sound, fine finish casting, assuring protection and appearance to insure proper alignment and seal. Style B Strainer screens through 2" are guided and retained in both body and bushing. 2½" and 3" Style B Strainers are provided with a groove in the body and taper in the bushing to provide maximum closure or seal at each end of screen.

SCREENS FURNISHED AS STANDARD:

Unless otherwise specified, the following screens will be supplied with the Style B Strainers:

Sizes ¼"-2"

Steam - Water : 20 Mesh Stainless Steel

Sizes 2½" & 3"

Steam : 28 Ga. Stainless Steel .027— $\frac{1}{32}$ " Perf Prox.

Water : 28 Ga. Stainless Steel .050— $\frac{3}{64}$ " " " "

SCREENS AVAILABLE FROM STOCK:

Brass: — Standard perforations in standard gauges. — .027 thru .250 diameter.

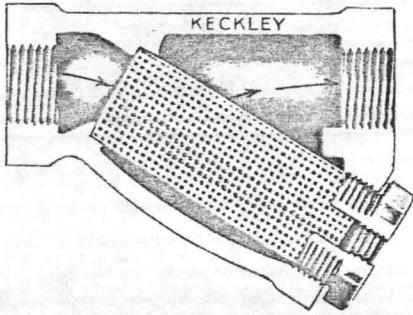
Monel*: — Standard perforations in standard gauges plus 40-60-80-120 Mesh Woven Wire. *(Special)

Stainless Steel: — Standard perforations in standard gauges AISI Type 302. —.027 thru .250 diameter.

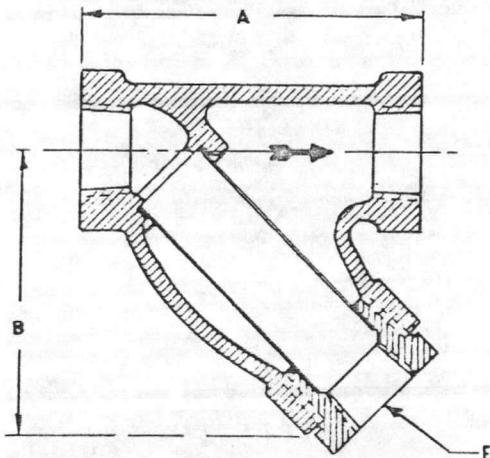
Other materials with special perforations available.

See pages 76 and 77 for data on screens and ratios.

For quick computation of pressure drop, see pages 78 and 79.



STYLE B

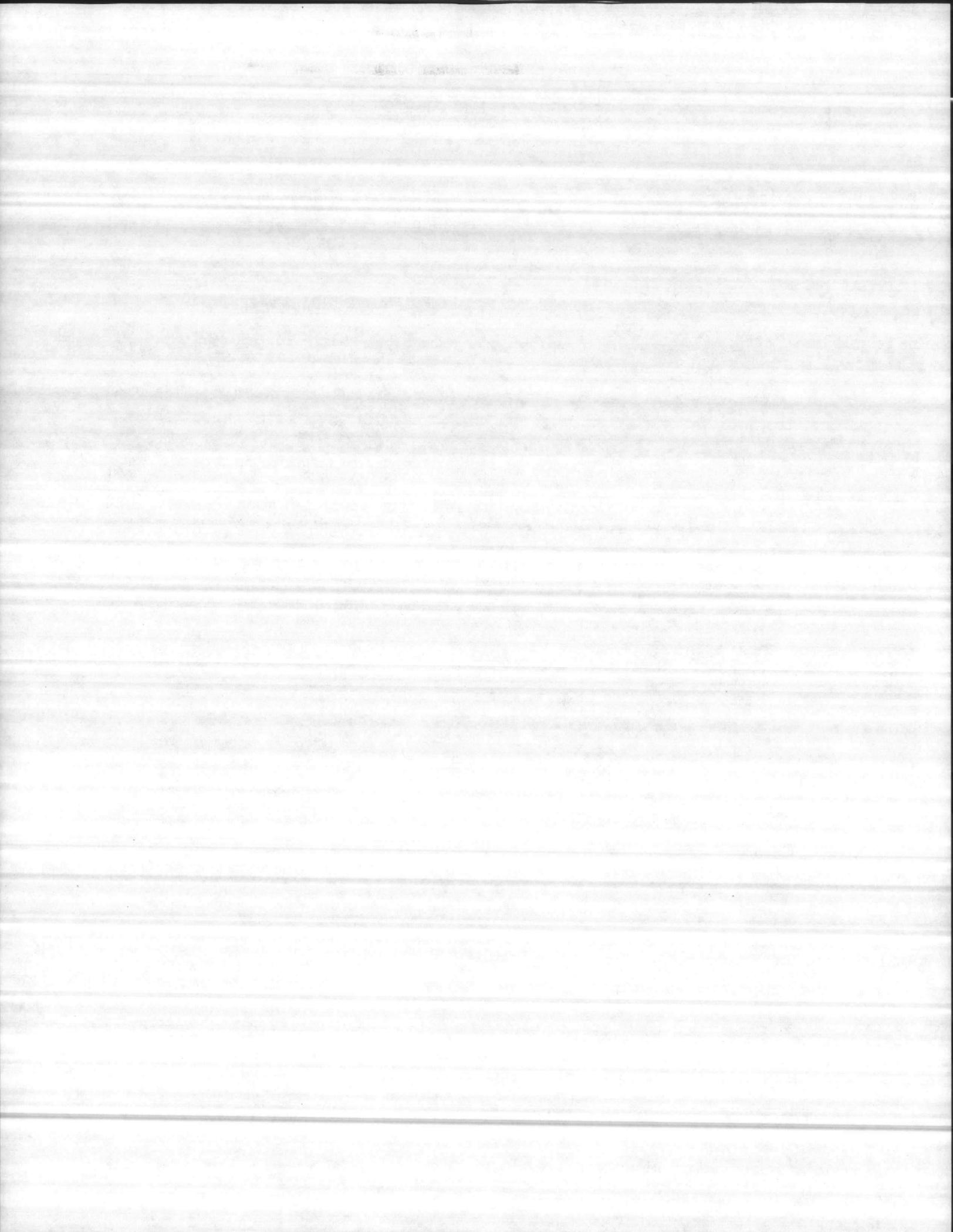


DIMENSIONS — STYLE B — SHIPPING

SIZE	¼	¾	½	¾	1
A	3	3	4	4	5
B	2 5/8	2 5/8	3 3/8	3 3/8	4 1/4
E	5/8	3/8	3/8	3/8	3/2
WEIGHT	1 1/2	1 1/2	2 1/2	2 3/4	5

"It is hereby certified that the (equipment) (material) shown and marked in this submittal is that proposed to be incorporated into 5 1/2 Contra 5 1/2" number 1207088-C-1766, is in compliance with the Contract drawings and specifications and is installed in the allocated spaces, and is submitted for Government approval. 15 24 1/2 37

Certified by _____
Date 1 Nov - 53 "





WALL HYDRANTS

LINE-GARD® WITH INTEGRAL VACUUM BREAKER

FUNCTION: For installation in exterior building walls where an exposed hose connection is acceptable. Provides positive non-freeze protection and features an integral type vacuum breaker. Adaptable to all types of wall construction.

REGULARLY FURNISHED:

Bronze Hydrant with Chrome Plated Face, Bronze Casing and Hose Connection with Integral Vacuum Breaker, Universal Inlet Connection and "T" Handle Key.

VARIATIONS:

1" Hose Connection Adaptor
Adjustable Wall Clamp
Optional Inlet Connection
(see page 5-06)

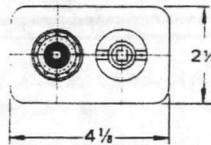
OPTIONAL MATERIALS:

Polished Bronze Face (PB)
Nickel Bronze Face (NB)

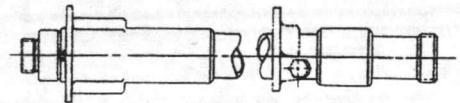
NOTES: Recommended Box Out 2" x 3 1/2"

WHEN ORDERING - SPECIFY "A" DIMENSION. FOR LENGTH NOT SPECIFIED BELOW, CONTACT FACTORY. FOR SHORT AS POSSIBLE, SPECIFY FIG. 5607.

A = 4, 6, 8, 10, 12, 14, 16, 18, 20, 22 or 24.



Front View



Side View

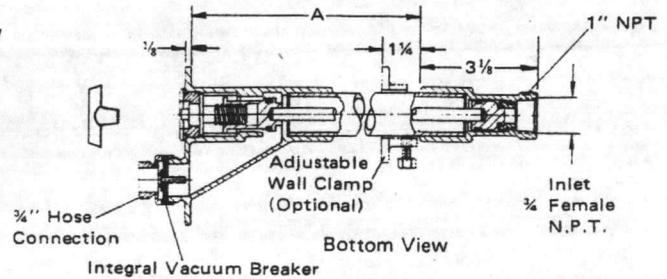
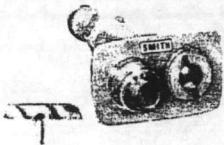


Fig. 5609 ... 3/4" INLET



5609

EXPOSED HOSE CONNECTION

FUNCTION: For installation in exterior building walls where an exposed hose connection is acceptable. Provides positive non-freeze protection and features an integral type vacuum breaker. Adaptable to all types of wall construction.

REGULARLY FURNISHED:

Bronze Hydrant with Chrome Plated Face and Bronze Casing with "T" Handle Key. Meets Gov't. Specs per WW-P-541b, Type 205.

VARIATIONS:

1" Hose Connection Adaptor
Adjustable Wall Clamp
3/4" Vacuum Breaker (VB)
Optional Inlet Connections
(See Page 5-06)

OPTIONAL MATERIALS:

Polished Bronze Face (PB)
Nickel Bronze Face (NB)

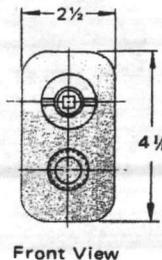
NOTES: Recommended Box Out 1 1/2" x 3 1/2"
or Use Standard 2 x 4
Wood Stud.

WHEN ORDERING - SPECIFY "A" DIMENSION. FOR LENGTH NOT SPECIFIED BELOW, CONTACT FACTORY. FOR SHORT AS POSSIBLE, SPECIFY FIG. 5730 LESS BOX AND INLET DESIRED.

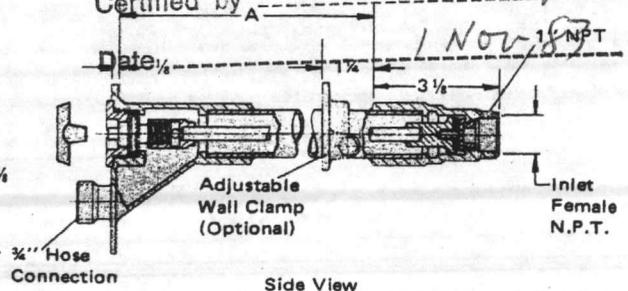
A = 4, 6, 8, 10, 12, 14, 16, 18, 20, 22 or 24.

"It is hereby certified that the equipment (material) shown and manufactured is that proposed to be incorporated into Contract Number W57702-8-C-1766, in compliance with the technical drawings and specifications attached thereto, and the allocated specifications and is obtained Government approval.

Certified by _____
Date: 1 Nov 1957

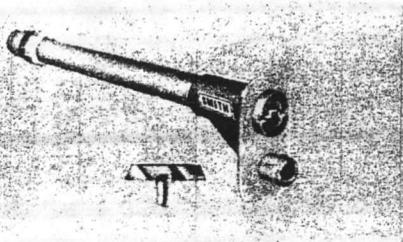


Front View



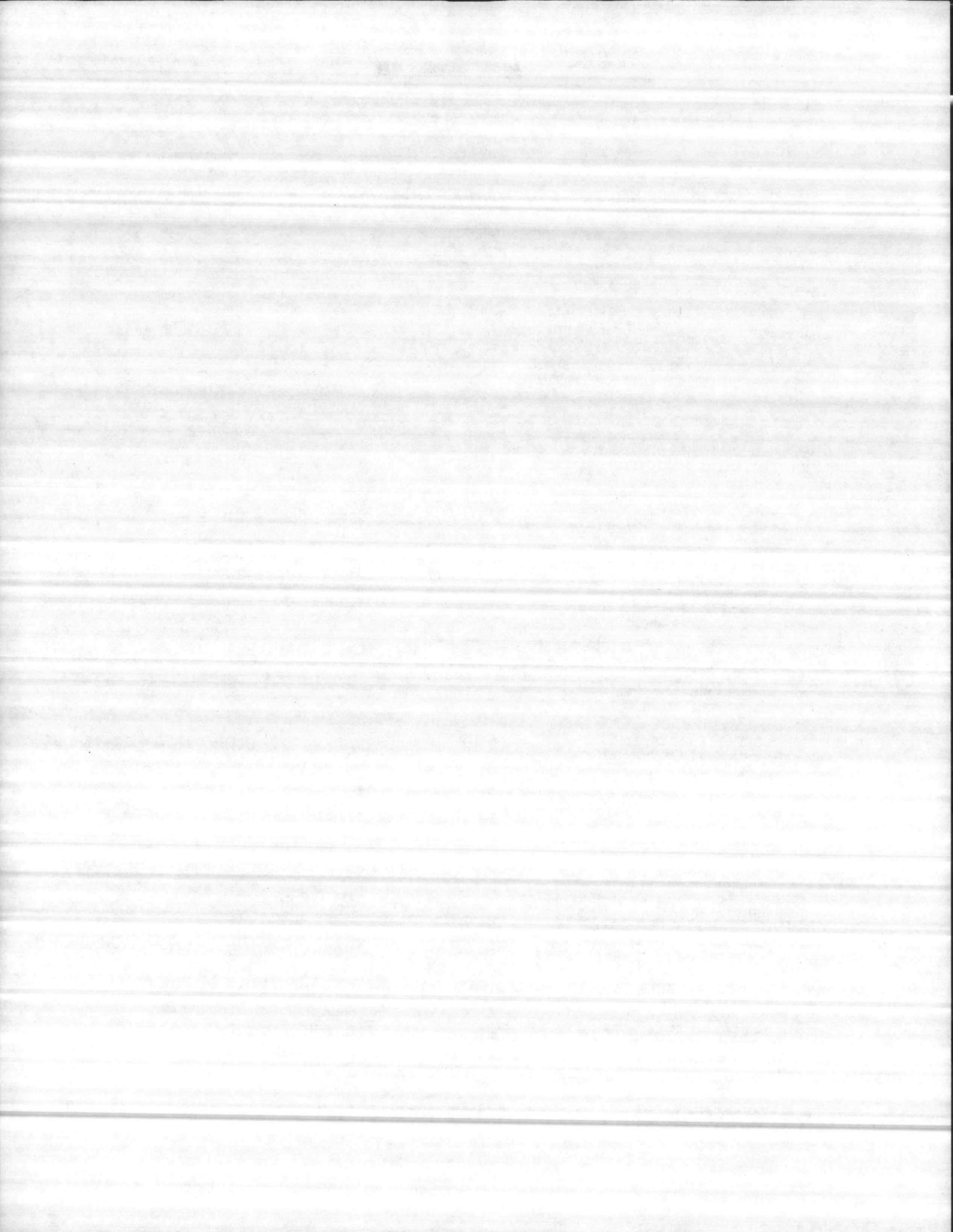
Side View

Fig. 5610 ... 3/4" INLET
Fig. 5611 ... 1" INLET



5610

5611





FLOOR OR SHOWER DRAINS WITH ADJUSTABLE STRAINER HEADS

FUNCTION: General service floor drain for use in showers, toilets, kitchens, and other finished areas where foot traffic is expected. The round top strainer head is used for all types of poured finished floors. The square top is particularly adaptable to floors that are finished of material in square or straight line patterns.

REGULARLY FURNISHED:

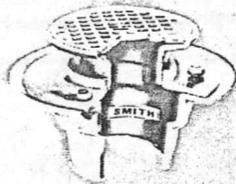
Duco Cast Iron Body and Flashing Collar with Protector Cap and Nickel Bronze Adjustable Strainer Head with Secured Square Hole Grate. Type of Strainer Head as Indicated by Suffix Letter Selected.

VARIATIONS:

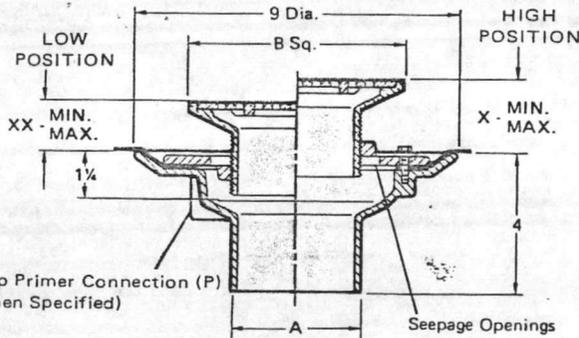
- Sediment Bucket (B)
- Hinged Grate (H)
- Trap Primer Connection (P)
- Vandal Proof Grate (U)
- Flapper Type Backwater Valve (V)
- Wide Flange Strainer
- (See Fig. DX 2010)
- Threaded Outlet (T)

OPTIONAL MATERIALS:

- Galvanized Cast Iron Body (G)
- Bronze Body
- Polished Bronze Strainer (PB)
- Chrome Plated Strainer (CP)
- Stainless Steel (See Fig. 9700-A)



2005-A



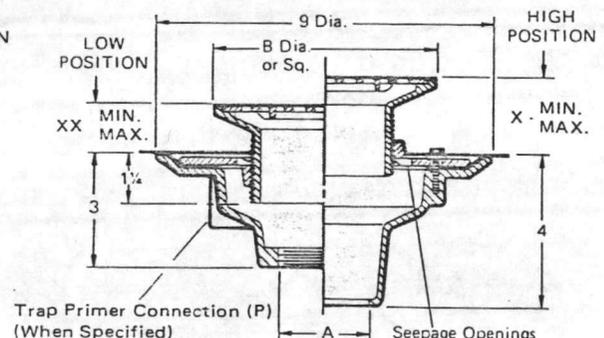
A (Pipe Size) = 2, 3 or 4
NO HUB ONLY

Fig. 2005-A . . . ROUND TOP
Fig. 2005-B . . . SQUARE TOP

Refer to Pages 2-09 and 2-10 for Optional Strainer Heads.

Fig. 2005 and 2010 meets ANSI and Gov't Specifications.

Outlet Size	Nickel Bronze Strainer Head
2	5 Dia.
3	6 Dia.
4	8 Dia.



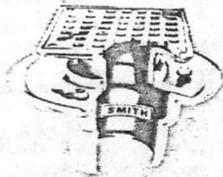
A (Pipe Size) = 2, 3 or 4
CAULK REGULAR

Fig. 2010-A ROUND TOP
Fig. 2010-B SQUARE TOP

Strainer Size B Dia. or Sq.	*Collar In High Position X		*Collar In Low Position XX		Free Area Sq. In.	
	Min.	Max.	Min.	Max.	Round	Square
5	1 1/4	2 1/4	3/4	1 1/4	7	6.5
6	1 1/4	2 1/4	3/4	1 1/4	9	12.5
7	1 1/4	2 1/4	7/8	1 1/4	14	11
8	1 1/2	2 1/2	1	1 1/4	17	14
9	1 1/2	2 3/4	1	1 1/4	18	16
10	1 1/2	2 3/4	1	1 1/4	23	16

*Add 3/8" to all min./max. dimensions for round strainers.

*Collar is reversible to obtain extreme high and low strainer positions.



2010-B

FUNCTION: Used in any floor or shower area. Four inch wide flange allows ample surface adhesion of traffic bearing deck covering. Strainers can be used with all drains shown.

REGULARLY FURNISHED:

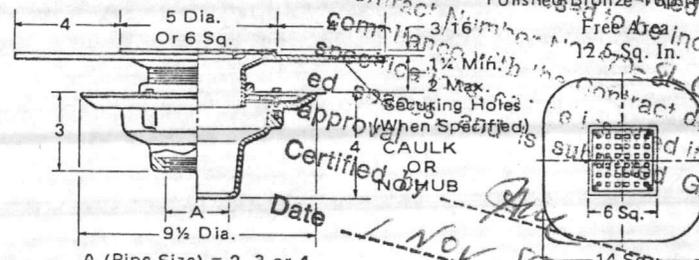
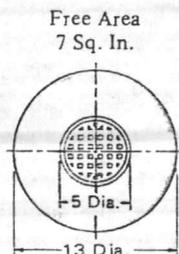
Duco Cast Iron Body with 4" wide Flange, Adjustable Nickel Bronze Top and Secondary Flashing Flange.

VARIATIONS:

- Sediment Bucket (B)
- Vandal Proof Screws
- Securing Holes
- Threaded Outlet (T)

OPTIONAL MATERIALS:

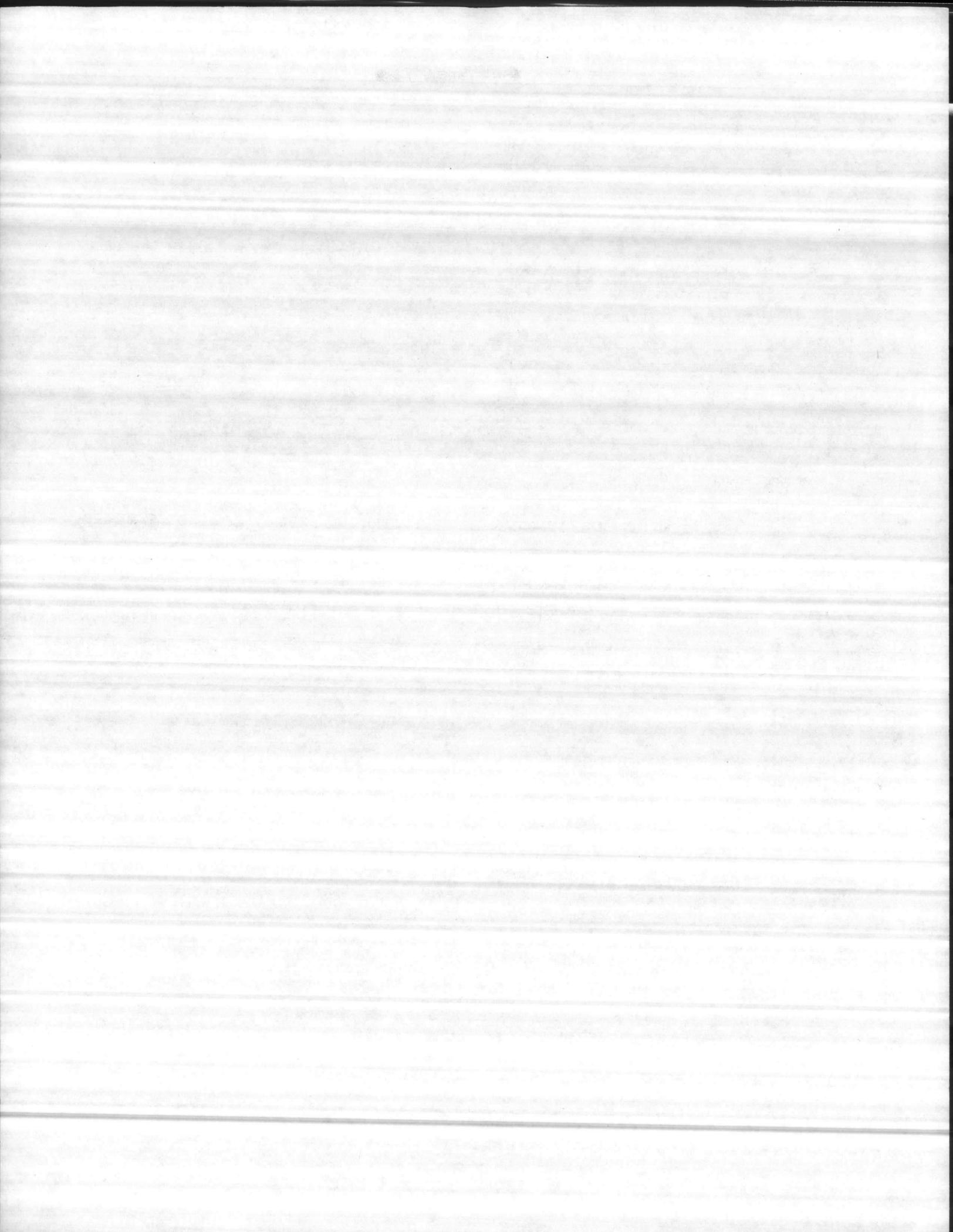
- Galvanized Cast Iron Body (G)
- Polished Bronze Strainer (PB)



A (Pipe Size) = 2, 3 or 4
INSIDE CAULK REGULAR

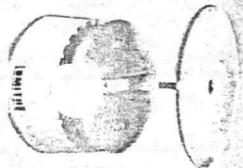
Fig. DX 2005-A ROUND TOP NO HUB Fig. DX 2005-B SQUARE TOP
Fig. DX 2010-A ROUND TOP CAULK Fig. DX 2010-B SQUARE TOP

DX 2010 A
DX 2010 B





CAULK FERRULE CLEANOUTS WITH FRAME AND COVER



LEAD SEAL PLUG WITH ROUND COVER

FUNCTION: Used in hub openings in drainage piping where a cleanout is required. The straight thread lead seal plug permits easy and quick removal. Grooves on outside of ferrule prevent turning. Face-of-wall cover is desirable on finished walls when ferrule is used in vertical piping.

REGULARLY FURNISHED:
 Duco Cast Iron Caulk Ferrule and Cast Iron Lead Seal Plug with Stainless Steel cover and screw when indicated by Fig. Number.

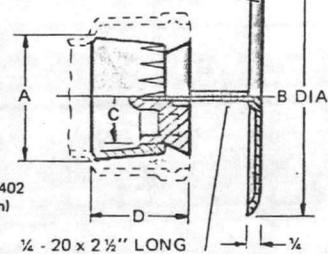
VARIATIONS:
 Vandal Proof Screw (U)
 Plug Tapped 1/4" - 20 Thread
 Longer Screw
 (Specify Length)

OPTIONAL MATERIALS:
 Cast Bronze Plug
 Cast Bronze Ferrule
 Prime Coated Steel Cover (PC)
 Polished Bronze Cover (PB)

A SIZE	B DIA.	C SIZE	D
2	4 1/4	1 1/2	2 1/2
3	5 1/2	2 1/2	2 3/4
4	5 1/2	3 1/2	3
5	7	4 1/2	3
6	9 1/4	5 1/2	3
8	11 1/4	7 1/2	3 1/2

Sized for Service Weight

STAINLESS STEEL COVER

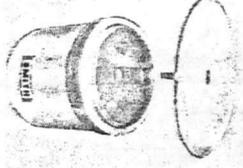


(Fig. 4402 Shown)

1/4 - 20 x 2 1/2" LONG
 FLAT HEAD MACHINE
 SCREW

COUNTERSUNK PLUG

Fig. 4400 ◀ LESS COVER AND SCREW
 Fig. 4402 ◀ WITH COVER AND SCREW



TAPER THREAD PLUG WITH ROUND COVER

FUNCTION: Used in hub openings in drainage piping where a cleanout is required. Face-of-wall cover is desirable on finished walls.

REGULARLY FURNISHED:
 Duco Cast Iron Caulk Ferrule with Cast Bronze Taper Thread Plug with Stainless Steel cover and screw when indicated by Fig. Number.

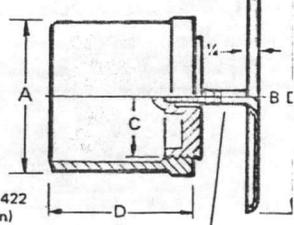
VARIATIONS:
 Vandal Proof Screw (U)
 Plug Tapped 1/4" - 20 Thread
 Longer Screw (Specify Length)

OPTIONAL MATERIALS:
 Cast Bronze Ferrule
 Prime Coated Steel Cover (PC)
 Polished Bronze Cover (PB)

A SIZE	B DIA.	C SIZE	D
2	4 1/4	1 1/2	3 1/2
3	5 1/2	2 1/2	3 3/4
4	5 1/2	3 1/2	4 1/4
5	7	4	4 1/4
6	9 1/4	5	4 1/4
8	11 1/4	6	4 1/2

Sized for Service Weight and/or No Hub

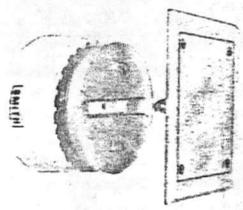
STAINLESS STEEL COVER



1/4 - 20 x 2 1/2" LONG
 FLAT HEAD MACHINE
 SCREW

COUNTERSUNK PLUG

Fig. 4420 ◀ LESS COVER AND SCREW
 Fig. 4422 ◀ WITH COVER AND SCREW



LEAD SEAL PLUG WITH SQUARE FRAME AND COVER

FUNCTION: Used in Hub openings in drainage piping where a cleanout is required. The straight thread lead seal plug permits easy and quick removal. Grooves on outside of ferrule prevent turning. Type of cover as indicated by figure number selected. Both covers are used to cover cleanouts concealed in walls. The square design is particularly adaptable to adjacent walls, floors, ceiling, etc., that are finished of material in straight line patterns. The anchoring lugs provide easy means for securing the frame to the wall construction. The face-of-wall (4430) cover is for tile, masonry, or dry wall construction, and is usually installed in an opening provided in the finished wall. The flush-with-wall (4431) cover is for plaster or wet wall construction and is installed during the wall construction.

REGULARLY FURNISHED:
 Duco Cast Iron Caulk Ferrule with Cast Iron Lead Seal Plug, Chrome Plated Bronze Square and Cover Secured with Slotted Screws.

VARIATIONS:
 Vandal Proof Screws (U)
 Plug Tapped 1/4" - 20 Thread

OPTIONAL MATERIALS:
 Cast Bronze Plug
 Cast Bronze Ferrule
 Polished Bronze Frame And Cover (PB)
 Nickel Bronze Frame With Stainless Steel Cover (NB)

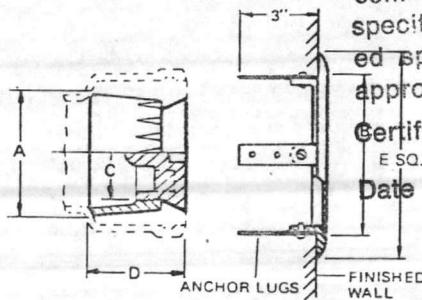


Fig. 4430 FACE-OF-WALL COVER

It is hereby certified that the equipment (material) shown and marked in this submittal is that proposed to be incorporated into Contract Number 1100470-8-C-1766, in compliance with the Contract drawings and specifications and approved by the allocated space and opening dimensions.

APPROVAL	A. OPENING SIZE	B. PLUG SIZE	C. FRAME SIZE	D. COVER SIZE	E. SQ.	F. SQ.
2	6 x 6	1 1/2	2 1/2	7 1/4	6 1/2	6 1/2
3	6 x 6	2 1/2	2 3/4	7 3/4	6 1/2	6 1/2
4	6 x 6	3 1/2	3 1/2	7 3/4	6 1/2	6 1/2
5	8 x 8	4 1/2	4 1/2	9 1/4	8 1/2	8 1/2
6	8 x 8	5 1/2	5 1/2	9 3/4	8 1/2	8 1/2
8	10 x 10	7 1/2	3 1/2	11 1/4	10 1/2	10 1/2
*	12 x 12	—	—	13 1/4	12 1/2	12 1/2
*	15 x 15	—	—	16 1/4	15 1/2	15 1/2

Sized for Service Weight

*Covers may be used with any of the above plugs.

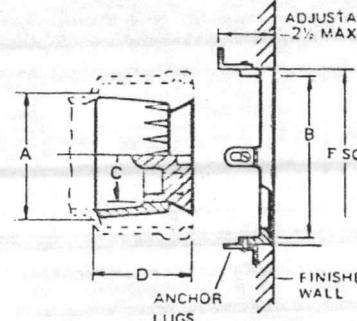
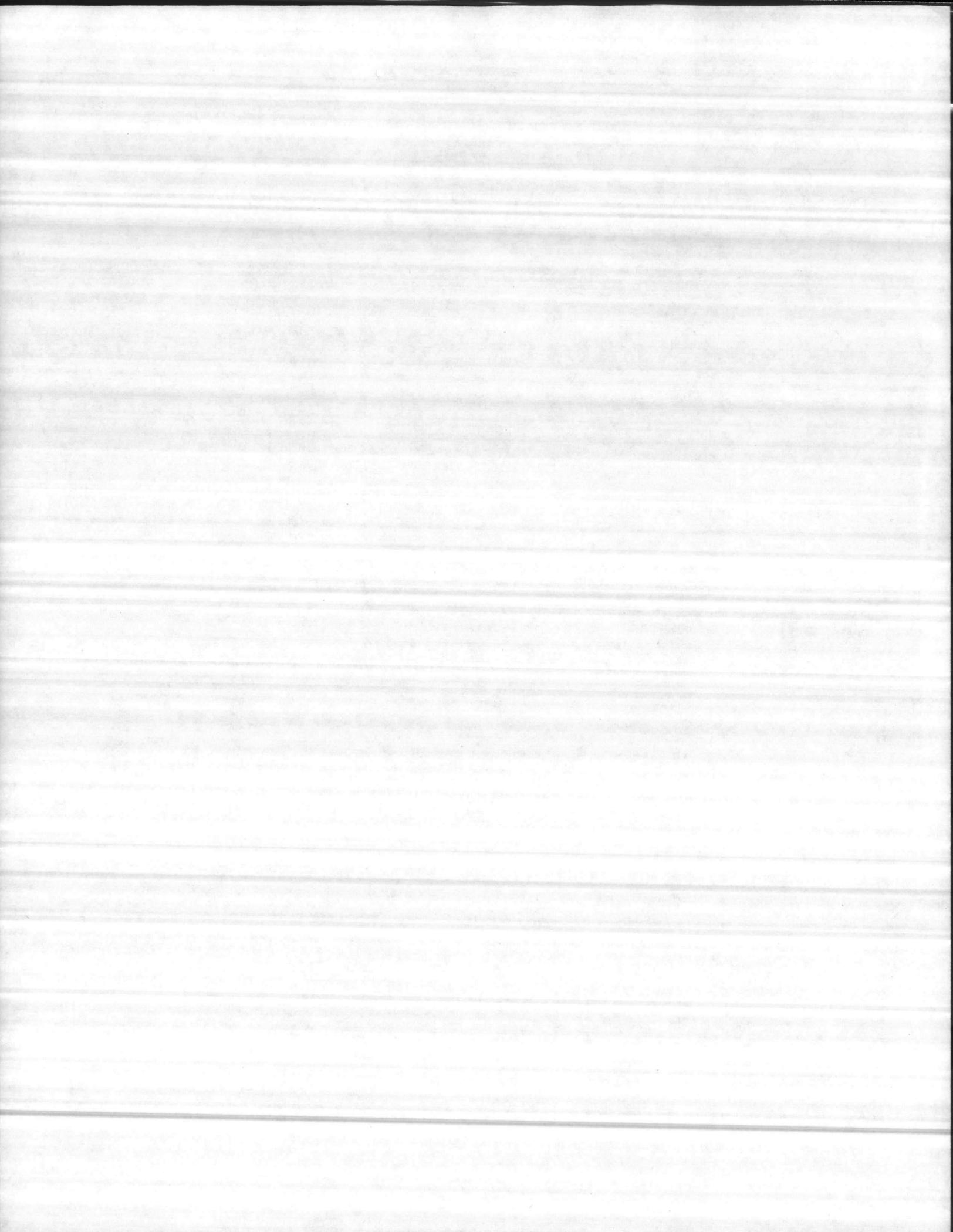


Fig. 4431 FLUSH-WITH-WALL COVER



BEST BY TEST

FINISHED FLOOR CLEANOUTS WITH ADJUSTABLE TOPS

ROUND HEAVY DUTY NICKEL BRONZE TOP

FUNCTION: For use in finished floors bearing foot and medium load wheeled traffic. Allows easy floor level adjustment.

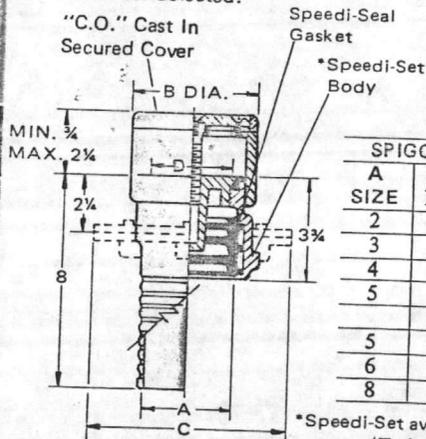
REGULARLY FURNISHED: Duct Cast Iron Clean-Out with Round Adjustable Scoriated Secured Nickel Bronze Top, Closure Plug and Type of Outlet as Indicated by Figure Number Selected.

VARIATIONS:

- Flange (F)
 - Flange with Flashing Clamp (F-C)
 - Vandal Proof Screws (U)
 - For Carpeted Floors - (2", 3" or 4" size) Carpet Clamping Type (X)
 - Carpet Marker Type (Y)
 - Wide Flange (DX)
- See Fig. DX4343 and Fig. DX4890

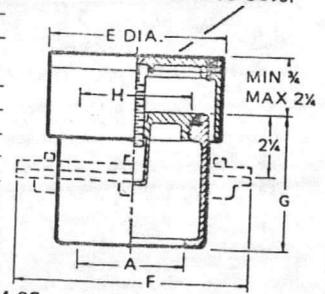
OPTIONAL MATERIALS:

- Polished Bronze Top (PB)
- Galvanized Cast Iron (G)



"TWIS-TO-FLOOR" ADJUSTMENT

SPIGOT/SPEEDI-SET				CAULK			
A SIZE	B DIA.	C DIA.	D SIZE	E DIA.	F DIA.	G	H SIZE
2	4	6 1/4	1 1/2	4 1/2	7	4 1/2	2 1/2
3	4 1/2	7	2 1/2	5 3/4	8 1/2	4 1/2	3 1/2
4	5 1/4	8 1/2	3 1/2	6 1/2	9	4 3/4	4
5	6 1/2	9	4	-	-	-	-
SET SCREW ADJUSTMENT							
5	-	-	-	8 1/2	4	5 3/4	6
6	8 1/2	11	5	8 1/2	11	5 3/4	6
8	8 1/2	11	6	-	-	-	-



*Speedi-Set available in 2, 3 and 4 inch sizes. Refer to Page 4-22. (Twis-to-Floor design shown with gasketed plug)

**Sized for Service Weight And/or No Hub

SPIGOT OUTLET SPEEDI-SET*▲**

- Fig. 4020 4031. GASKET SEAL - IRON PLUG Fig. 4025
- Fig. 4021 4032. GASKET SEAL - BRONZE PLUG Fig. 4026
- Fig. 4023 4033. TAPER THREAD - BRONZE PLUG Fig. 4028

▲▲▲ INSIDE CAULK OUTLET

4020 SERIES



4031 SERIES

SQUARE HEAVY DUTY NICKEL BRONZE TOP

FUNCTION: For use in finished floors bearing foot and medium load traffic. The square top is particularly adaptable to floors that are finished of material in straight line pattern. It allows easy floor level adjustment.

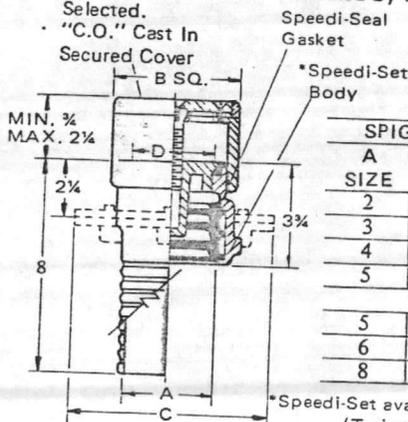
REGULARLY FURNISHED: Duct Cast Iron Clean-Out with Square Adjustable Scoriated Secured Nickel Bronze Top, Closure Plug and Type of Outlet as Indicated by Figure Number Selected.

VARIATIONS:

- Flange (F)
- Flange with Flashing Clamp (F-C)
- Vandal Proof Screws (U)

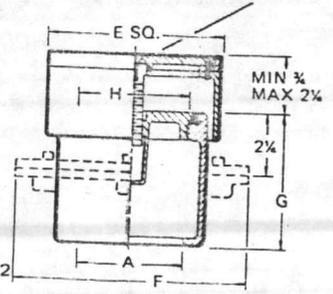
OPTIONAL MATERIALS:

- Polished Bronze Top (PB)
- Galvanized Cast Iron (G)



"TWIS-TO-FLOOR" ADJUSTMENT

SPIGOT/SPEEDI-SET				CAULK			
A SIZE	B SQ.	C DIA.	D SIZE	E SQ.	F DIA.	G	H SIZE
2	4	6 1/4	1 1/2	4 1/2	7	4 1/2	2 1/2
3	4 1/2	7	2 1/2	5 3/4	8 1/2	4 1/2	3 1/2
4	5 1/4	8 1/2	3 1/2	6 1/2	9	4 3/4	4
5	6 1/2	9	4	-	-	-	-
SET SCREW ADJUSTMENT							
5	-	-	-	8 1/2	11	5 3/4	6
6	8 1/2	11	5	8 1/2	11	5 3/4	6
8	8 1/2	11	6	-	-	-	-



*Speedi-Set available in 2, 3 and 4 inch sizes. Refer to Page 4-22 (Twis-to-Floor design shown with gasketed plug)

**Sized for Service Weight And/or No Hub

SPIGOT OUTLET SPEEDI-SET*▲**

- Fig. 4040 4051. GASKET SEAL - IRON PLUG Fig. 4045
- Fig. 4041 4052. GASKET SEAL - BRONZE PLUG Fig. 4046
- Fig. 4043 4053. TAPER THREAD - BRONZE PLUG Fig. 4048

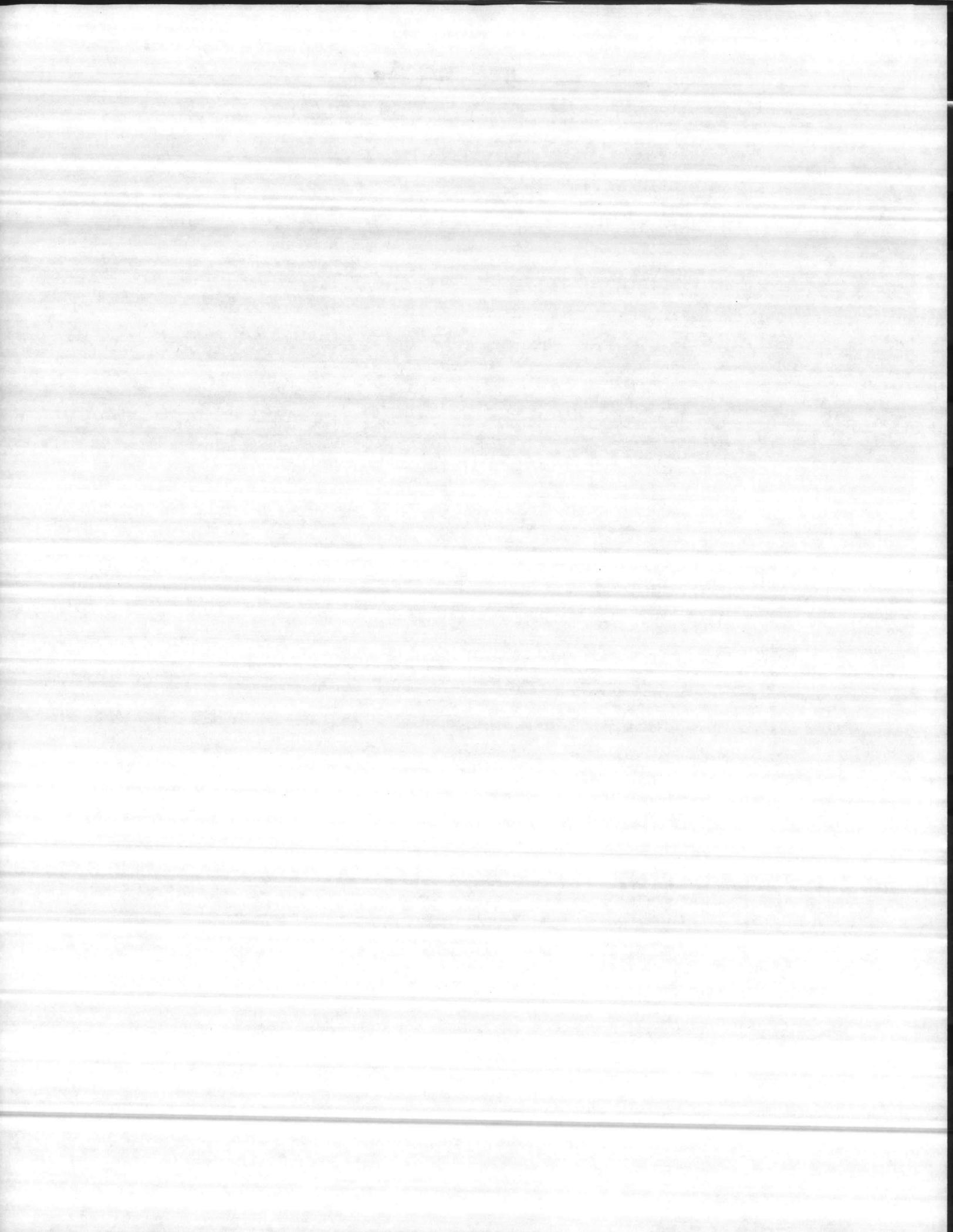
▲▲▲ INSIDE CAULK OUTLET

"It is hereby certified that the (equipment) material shown in this submittal is that proposed to be incorporated into the drawings and specifications for the above project. Approved by: *[Signature]* Date: *1 Nov 83*

4040 SERIES



4051 SERIES





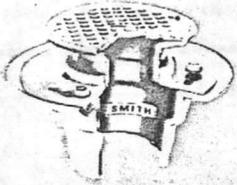
FLOOR OR SHOWER DRAINS WITH ADJUSTABLE STRAINER HEADS

FUNCTION: General service floor drain for use in showers, toilets, kitchens, and other finished areas where foot traffic is expected. The round top strainer head is used for all types of poured finished floors. The square top is particularly adaptable to floors that are finished of material in square or straight line patterns.

REGULARLY FURNISHED:
Duct Cast Iron Body and Flashing Collar with Protector Cap and Nickel Bronze Adjustable Strainer Head with Secured Square Hole Grate. Type of Strainer Head as Indicated by Suffix Letter Selected.

VARIATIONS:
Sediment Bucket (B)
Hinged Grate (H)
Trap Primer Connection (P)
Vandal Proof Grate (U)
Flapper Type Backwater Valve (V)
Wide Flange Strainer
(See Fig. DX 2010)
Threaded Outlet (T)

OPTIONAL MATERIALS:
Galvanized Cast Iron Body (G)
Bronze Body
Polished Bronze Strainer (PB)
Chrome Plated Strainer (CP) ✓
Stainless Steel (See Fig. 9700-A)



2005-A

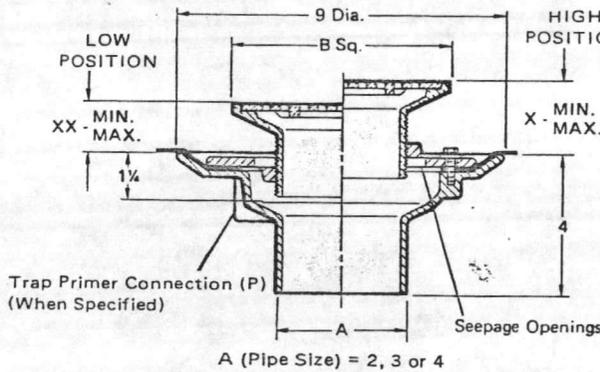


Fig. 2005-A ROUND TOP
Fig. 2005-B SQUARE TOP

Refer to Pages 2-09 and 2-10 for Optional Strainer Heads.

Fig. 2005 and 2010 meets ANSI and Gov't Specifications.

Outlet Size	Nickel Bronze Strainer Head
2	5 Dia.
3	6 Dia.
4	8 Dia.

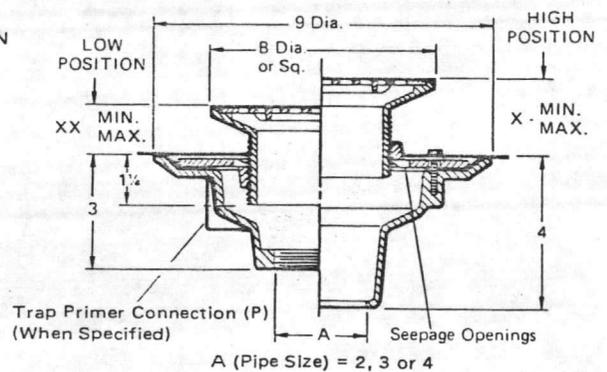


Fig. 2010-A ROUND TOP
Fig. 2010-B SQUARE TOP

Strainer Size B Dia. or Sq.	*Collar In High Position X		*Collar In Low Position XX		Free Area Sq. In.	
	Min.	Max.	Min.	Max.	Round	Square
5	1 1/4	2 1/4	3/4	1 3/8	7	6.5
6	1 1/4	2 1/4	3/4	1 3/8	9	12.5
7	1 1/4	2 1/4	7/8	1 7/8	14	11
8	1 1/2	2 1/2	1	1 7/8	17	14
● 9	1 1/2	2 3/8	1	1 7/8	18	16
● 10	1 1/2	2 3/8	1	1 7/8	23	16

● Add 3/16" to all min./max. dimensions for round strainers.

*Collar is reversible to obtain extreme high and low strainer positions.

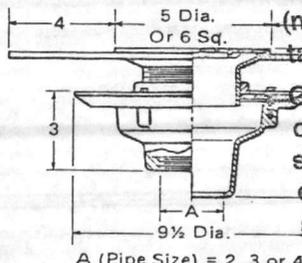
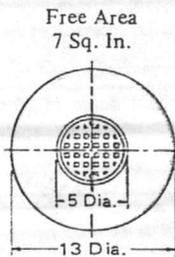
2010-B

FUNCTION: Used in any floor or shower area. Four inch wide flange allows ample surface adhesion of traffic bearing deck covering. Strainers can be used with all drains shown.

REGULARLY FURNISHED:
Duct Cast Iron Body with 4" wide Flange, Adjustable Nickel Bronze Top and Secondary Flashing Flange.

VARIATIONS:
Sediment Bucket (B)
Vandal Proof Screws (U)
Securing Holes
Threaded Outlet (T)

OPTIONAL MATERIALS:



It is hereby certified that the (equipment) shown is in compliance with the specifications and is approved for use in the allocated Government drawings and is submitted for approval.

Contract No. 12.5 Sq. In. - 1766

1 1/2 Min. 2 1/2 Max.

Securing Holes (When Specified)

OR

U.S. Pat. 2,100,000

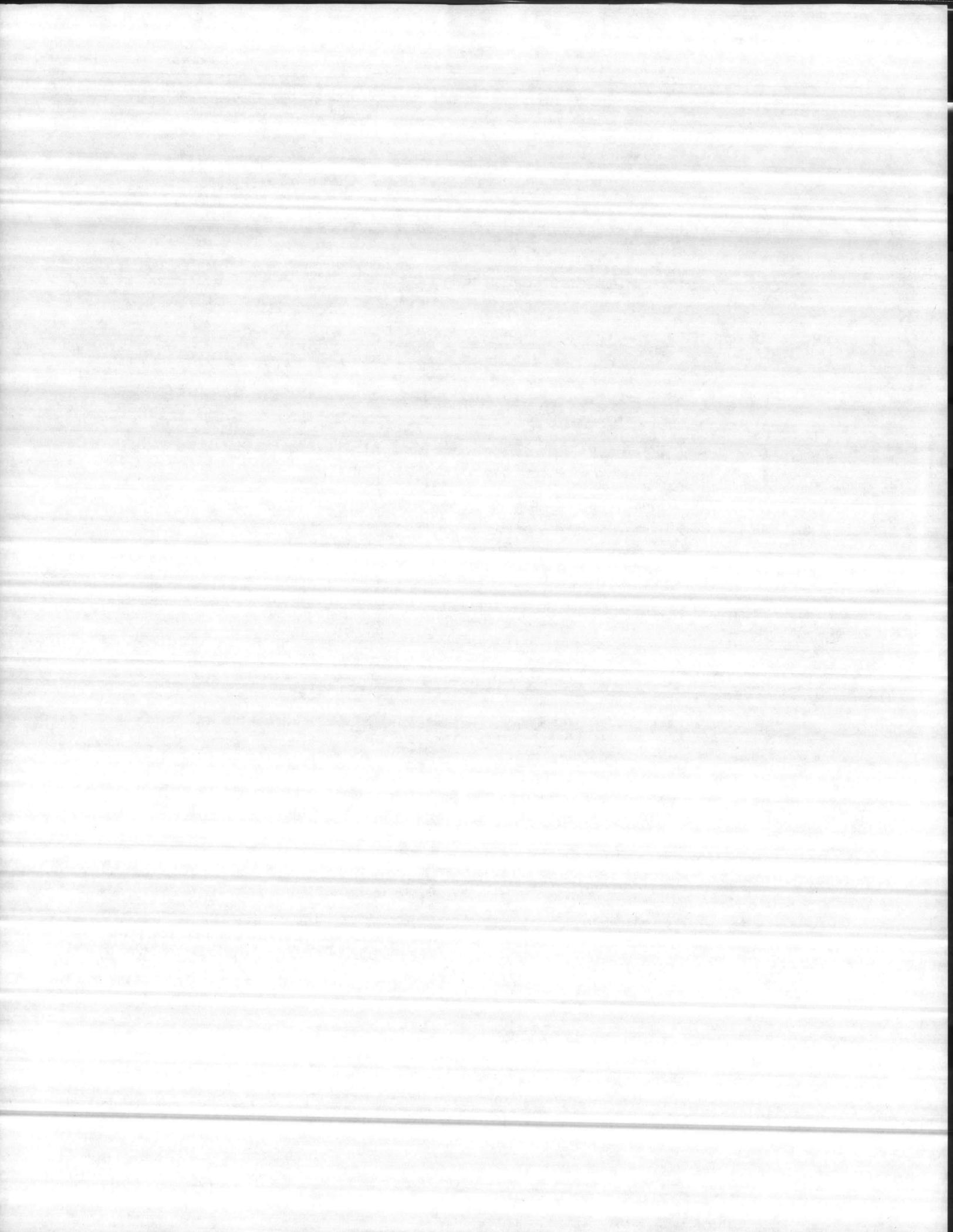
6 Sq. In.

14 Sq. In.

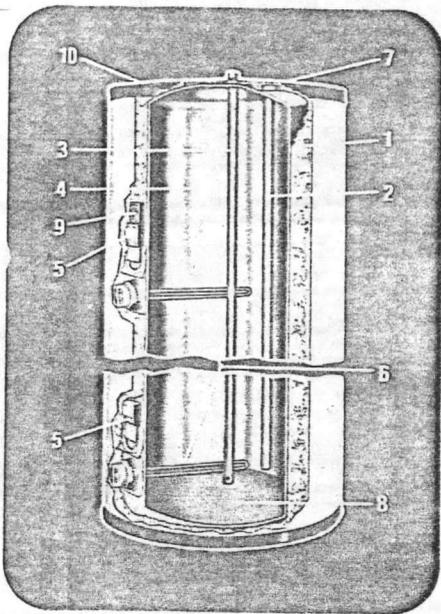
NOV 83

DX 2010 A
DX 2010 B

Fig. DX 2005-A ROUND TOP NO HUB Fig. DX 2005-B SQUARE TOP
Fig. DX 2010-A ROUND TOP CAULK Date: Fig. DX 2010-B SQUARE TOP



Standard Medium Energy Miser®



CONSTRUCTION FEATURES

1. R-Foam Insulation—Rigid polyurethane foam insulation for improved economy and fuel savings.
2. Cold Water Inlet—Brings cold water to tank bottom to prevent mixing with already heated water.
3. Anode Rod—Equalizes aggressive water action; different types factory installed and designed to match local water chemical characteristics throughout the U.S. Easy to inspect and replace.
4. Rheemglas Tank—Rheem® water heater tanks are made of special materials with exacting care. The tank surface is coated with an exclusive porcelain formula called Rheemglas and fused to the solid steel shell at 1600°. The result is a smooth, tough, glasslike lining that effectively resists the corrosive attacks of hot water chemicals, thereby assuring long water heater life. Tank is designed and tested to withstand 300 PSI hydrostatic test pressure for working pressure of 150 PSI U.L. 174 Standard.
5. Automatic Temperature Control Thermostat—Keeps stored water at desired temperature.
6. Direct Immersion Heating Elements are completely immersed—all the heat goes into the water. Operates silently with maximum efficiency.
7. Cold Water Inlet, Hot Water Outlet, Relief Valve, Anode Rod and Electrical Connections are at top of tank for easy access and fast, economical installation. New top pan securing device eliminates sheet metal screws and stabilizes tank—"no floating action."
8. Bottom Pan is secured directly to a special lug on tank bottom. Lug serves as a ground and also locks tank to pan to prevent "floating action."
9. Over Temperature Protector—Automatically and safely cuts off power in the event desired temperature is exceeded.
10. Electrical Junction Box—(For 1/2" and 3/4" conduit) placed above heating elements for easy installing. No spot welds used.

It is hereby certified that the (equipment (material) shown and marked in this submittal is that proposed to be incorporated into Contract Number NS2470-8-C-1766, is in compliance with the Contract drawings and specifications, can be installed in the allocated spaces, and is submitted Government approval.

Certified by _____ Date 1 NOV 83

5 KW

Specifications

MODEL NO. & TANK CAP. GALS.		81MV 30D	81MV 40D	81MV 52D
ELEMENTS		2	2	2
A	Hgt. of Heater	35 ¹⁵ / ₁₆ in.	46 ¹ / ₂ in.	47 ¹¹ / ₁₆ in.
B	Hgt. to Water Conn.	35 ¹⁵ / ₁₆ in.	46 ¹ / ₂ in.	47 ¹¹ / ₁₆ in.
C	Jacket Diameter	19 in.	19 in.	21 ³ / ₄ in.
NON-SIMULTANEOUS WIRING	208, 240, 277, 480V	Standard	4500/4500	4500/4500
		Max. U.L.	6000/6000	6000/6000
SIMULTANEOUS WIRING	208, 240, 277, 480V	Standard*	4500/4500	4500/4500
		Max. U.L.*	5500/5500	5500/5500
APPROX. SHIPPING WT. LBS.		94	114	139

*For 208V 4000/4000: 8000 max

NOTES:

- Unless otherwise specified, standard 240 volt AC will be furnished. 208 volt, 277 volt, and 480 volt AC supplied on special order. No. extra cost. Single phase only.
- Single phase heaters available for field connection to three phase electrical circuits—optional at extra cost.
- If heating elements of different wattages than those shown are demanded by zone requirements, they must be specifically requested.
- Non-Simultaneous wiring also available for use with "off-peak" metering—this requires an additional external type electrical junction box.
- Simultaneous wiring is supplied with an external type electrical junction box.
- Single element models available on special order. Substitute "S" for "D."

LIMITED WARRANTY

GENERAL: Manufacturer, RHEEM MANUFACTURING COMPANY, will furnish a replacement water heater in the event of tank failure, and will furnish a replacement for any other part, which fails in normal use and service within the applicable periods specified below, in accordance with the terms of this warranty. The RHEEM replacement will be warranted for only the unexpired portion of the original warranty.

THE TANK: If the tank fails within FIVE (5) years after original installation and operation, RHEEM will furnish a replacement water heater. However, if the water heater is installed in other than a single family dwelling, this tank warranty is limited to ONE (1) year from date of original installation and operation.

ANY OTHER PART: If any other part fails within ONE (1) year after original installation and operation, RHEEM will furnish a replacement part.

THIS WARRANTY WILL NOT APPLY: a) to defects or malfunctions resulting from failure to properly install, operate or maintain the unit in accordance with the printed instructions provided; b) to damage from abuse, accident, fire, flood and the like; c) to any defect or damage caused by operating unit with the anode rod removed—or if the elements or dip tube fails because of operating with empty or partially empty tank (dry fired); or IN THE EVENT TANK FAILURE OCCURS DUE TO THE WATER HEATER BEING OPERATED AT WATER TEMPERA-

TURES EXCEEDING MAXIMUM SETTING OF THE OPERATING AND/OR HIGH LIMIT CONTROL, OR THE WATER HEATER IS NOT SUPPLIED WITH POTABLE WATER, FREE TO CIRCULATE AT ALL TIMES. THE TANK MUST BE FREE OF DAMAGING SCALE DEPOSITS AND NOT SUBJECT TO PRESSURES OR FIRING RATES GREATER THAN THOSE SHOWN ON THE RATING PLATE, WHICH MUST NOT BE ALTERED, DEFACE OR REMOVED; e) to defects or damage caused by the use of any attachment, including any energy saving device, not authorized by RHEEM; f) to units which are not installed in the United States of America, and in accordance with applicable local codes, ordinances and good trade practices; g) if the unit is moved from its original installation location.

SERVICE LABOR RESPONSIBILITY: This Warranty does not cover any labor expenses for service, removal or re-installation. All such expenses are your responsibility.

SHIPPING COSTS: RHEEM will pay the transportation costs for the replacement to a convenient delivery point selected by us near the place of installation, such as a local RHEEM water heater distributor. You must pay any local cartage, including the cost of returning the replaced item to our local distributor.

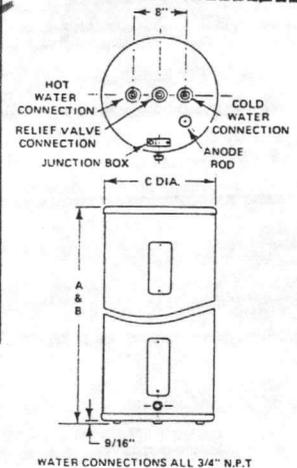
HOW TO MAKE CLAIM: Any claim for warranty service should be made to your contractor or dealer from whom the water heater was purchased. If this cannot be done, simply contact any other local

contractor handling RHEEM water heater products, or our factory branch.

In most cases, your contractor should be able to promptly take the necessary corrective action and, thereafter, notify RHEEM of the in-warranty claim. HOWEVER, ANY REPLACEMENTS ARE MADE SUBJECT TO VALIDATION BY RHEEM OF IN-WARRANTY COVERAGE. The item to be replaced must be made available in exchange for the replacement.

MISCELLANEOUS: No one is authorized to make any other warranties on our behalf. ANY IMPLIED WARRANTIES, INCLUDING MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, SHALL NOT EXTEND BEYOND THE APPLICABLE WARRANTY PERIODS SPECIFIED ABOVE. RHEEM'S SOLE LIABILITY WITH RESPECT TO ANY DEFECT SHALL BE AS SET FORTH IN THIS WARRANTY AND ANY CLAIMS FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING DAMAGE FROM WATER LEAKAGE) ARE EXCLUDED. Some states do not allow limitations on how long an implied warranty lasts, or for the exclusion of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.



RHEEM WATER HEATER DIVISION

CITY INVESTING COMPANY

5780 Peachtree-Dunwoody Road N.E./Atlanta, Georgia 30342

WORLD'S LARGEST MANUFACTURER OF WATER HEATERS.

Rheem also makes Environmental Control Products/Residential and Commercial Air Conditioning Equipment/Commercial and Industrial Heating, Cooling and Air Treatment Products

"In keeping with its policy of continuous progress and product improvement, Rheem reserves the right to make changes without notice."



