

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

HYDRAULIC CALCULATIONS - B257		
	PRESS. LOSS (PSI)	PRESS. AVAIL. (PSI)
PRESSURE AT STREET MIN: 64 PSI	—	64
(E) 4" BACKFLOW PREVENTER LOSS (OUTSIDE OF BUILDING)	9	55
PRESSURE AFTER (E) BFP	—	50
ELEVATION LOSS (35 FT.) x 0.433	15	35
DESIGN PRESSURE AT FIXTURE	25	10
PRESS. AVAILABLE FOR 265' PIPING FRICTION LOSS	—	10
PRESS. AVAILABLE FOR PIPING FRICTION LOSS PER 100FT 10/265' X 100	—	3.7


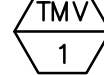
PIPE SIZING CHART - B257			
COPPER TYPE L 3 PSI / 100'-0" @ FT/SEC	MAXIMUM FU ALLOWABLE		FLUSH VALVE
	FLUSH TANK COLD	HOT	
SIZE			
1/2"	1	1	—
3/4"	6	6	—
1"	13	13	—
1 1/4"	24	24	—
1 1/2"	47	47	10
2"	158	120	64
2 1/2"	380	246	245
3"	691	412	630

HYDRAULIC CALCULATIONS - B256		
	PRESS. LOSS (PSI)	PRESS AVAIL. (PSI)
PRESSURE AT STREET MIN: 64 PSI	—	64
(E) 4" BACKFLOW PREVENTER LOSS (OUTSIDE OF BUILDING)	9	55
PRESSURE AFTER (E) BFP	—	50
ELEVATION LOSS (35 FT.) x 0.433	15	35
DESIGN PRESSURE AT FIXTURE	25	10
PRESS. AVAILABLE FOR 250' PIPING FRICTION LOSS	—	10
PRESS. AVAILABLE FOR PIPING FRICTION LOSS PER 100FT 10/250' X 100	—	3.5

PIPE SIZING CHART - B256			
COPPER TYPE L 3 PSI / 100'-0" @ FT/SEC	MAXIMUM FU ALLOWABLE		FLUSH VALVE
	FLUSH TANK COLD	HOT	
SIZE			
1/2"	1	1	—
3/4"	6	6	—
1"	13	13	—
1 1/4"	24	24	—
1 1/2"	47	47	10
2"	158	120	64
2 1/2"	380	246	245
3"	691	412	630

PLUMBING FIXTURE SCHEDULE				
ABBREV.	DESCRIPTION	CW	HW	REMARKS
STV	STOP VALVE	3/4"	3/4"	"CHICAGO" MODEL NO. 375-LK, 3/4" STRAIGHTWAY STOP VALVE W/ LOOSE KEY TEE HANDLE.
WHA	WATER HAMMER ARRESTER	3/4"	—	"PRECISION PLUMBING PRODUCTS" — 3/4".
AP	ACCESS PANEL	—	—	"SMITH" MODEL 4735U, SQUARE, POLISHED FACE CHROME-PLATED BRONZE.
TP	(E) TRAP PRIMER	1/2"	—	EXISTING VALVE TO REMAIN.
S	(E) SINK	3/4"	3/4"	EXISTING FIXTURE TO REMAIN.
SS	(E) SERVICE SINK	3/4"	3/4"	EXISTING FIXTURE TO REMAIN.
HB	(E) HOSE BIBB	3/4"	—	EXISTING FIXTURE TO REMAIN.
SH	(E) SHOWER	3/4"	3/4"	EXISTING FIXTURE TO REMAIN.
L	(E) LAVATORY	3/4"	3/4"	EXISTING FIXTURE TO REMAIN.
WC	(E) WATER CLOSET	1 1/2"	—	EXISTING FIXTURE TO REMAIN.
EWC	(E) ELECTRIC WATER COOLER	3/4"	—	EXISTING FIXTURE TO REMAIN.
UR	(E) URINAL	1 1/4"	—	EXISTING FIXTURE TO REMAIN.
DF	(E) DRINKING FOUNTAIN	3/4"	—	EXISTING FIXTURE TO REMAIN.
BT	(E) BATH TUB	3/4"	3/4"	EXISTING FIXTURE TO REMAIN.


POINT OF CONNECTION NOTE:
1. POINT OF CONNECTION TO (E) WATER CLOSETS AND URINALS SHALL BE UPSTREAM OF (E) VALVE BEHIND WALL. (E) FLUSH VALVE AND ASSOCIATED VALVES TO REMAIN.

EQUIPMENT SCHEDULE		
ITEM	DESCRIPTION	REMARKS
 CP 1	HOT WATER CIRCULATING PUMP	"GRUNDFOS" MODEL NO. UPS 15-35 SFC. TEMP. RANGE: 35.6 TO 165.2°F, MAX. OPER. PRESSURE: 145 PSI, UL, CSA APPROVED, 2-POLES, 110W MAX POWER INPUT, 60 HZ. PROVIDE AQUASTAT WITH GAUGE.
 TMV 1	THERMOSTATIC MIXING VALVE	"LEONARD" MODEL NO. LV-982-LF, 120V, 1 PH, 60 HZ, 94 TO 188 GPM, DIGITAL MIXING VALVE, PROGRAMMABLE CONTROL MODULE.

100% CD SUBMITTAL

08/05/15

ARCHITECT/ENGINEERS/CONSULTANTS:

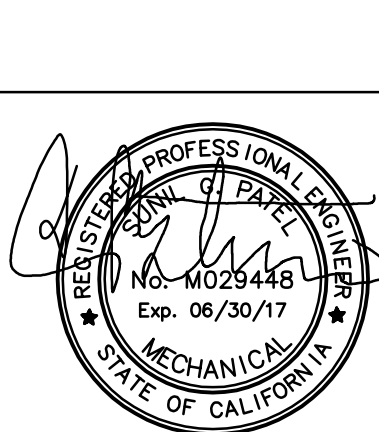


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CHIEF, ENV. MANAGEMENT DEPT. (137)

DIR., FACILITIES MANAGEMENT (10A4)

CHIEF OF STAFF (11)

Drawing Title

PLUMBING FIXTURE SCHEDULE AND HYDRAULIC CALCULATIONS

ASSOCIATE DIRECTOR, ADMINISTRATION & SUPPORT SERVICES (10A)

DIRECTOR (00)

Project Title

CORRECT POTABLE WATER DEFICIENCIES - BUILDING 256/257

Location

VA MEDICAL CENTER
WEST LOS ANGELES, CA 90073

Date

APRIL 14, 2015

Checked

WM

Drawn

LC

Project Number

691-15-115-WL

Building Number

256/257

Drawing Number

P002

Dwg 2 of 20

Office of Facilities Management

Department of Veterans Affairs

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