

GC= GENERAL CONTRACTOR  
SCW = SONNYS (CARWASH INSTALLER)

05.25.06

## PLUMBING & MECHANICAL SPECIFICATIONS GENERAL CONTRACTOR

### A. GENERAL PROVISIONS

1. THE WORK SHALL CONSIST OF FURNISHING LABOR, EQUIPMENT, AND MATERIALS TO PROVIDE THE COMPLETE INTEGRATED AND PROPER FUNCTIONING SYSTEMS AS SHOWN ON THE DRAWINGS.
2. SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO, FURNISHING, INSTALLING AND TERMINATING PER THESE DRAWINGS, AND SONNY'S INSTALLATION MANUALS.
4. THE GENERAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF OTHER TRADES SO AS TO AVOID INTERFERENCE.
5. THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL LAYOUT OF PLUMBING SYSTEMS. FIELD VERIFICATIONS OF DIMENSIONS IS DIRECTED.
6. SECURE PERMITS AND INSPECTIONS REQUIRED BY STATE AND LOCAL LAWS AND ORDINANCES.
8. UPON COMPLETION OF THE WORK, FURNISH TO THE OWNER CERTIFICATES OF FINAL INSPECTIONS AND APPROVALS FROM AUTHORITIES HAVING JURISDICTION.
9. ALL WORK SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER.

### 1.0 DESCRIPTION

- A. THE INTENT OF THE PLANS AND SPECIFICATIONS IS TO OBTAIN COMPLETE SYSTEMS TESTED, ADJUSTED AND READY FOR OPERATION.
- B. CHECK, VERIFY AND COORDINATE THE INSTALLATION WITH THE WORK OF OTHER TRADES. INCLUDE MODIFICATIONS, RELOCATIONS OR ADJUSTMENTS NECESSARY TO COMPLETE WORK OR TO AVOID INTERFERENCES.

- 1.1 RECORD DRAWINGS  
MAINTAIN AND PROVIDE, ON REQUEST, COMPLETE UP-TO-DATE RECORD DRAWINGS.
- 1.2 GUARANTEE  
GUARANTEE FOR ONE YEAR AFTER OWNER ACCEPTANCE ALL MATERIALS, EQUIPMENT AND WORKMANSHIP. REPAIR, REPLACE OR ALTER SYSTEMS FOUND DEFECTIVE. RESTORE WORK DISTURBED WHICH IS GUARANTEED UNDER CONTRACT.
- 1.3 CERTIFICATES AND INSPECTIONS  
OBTAIN AND PAY FOR ALL REQUIRED INSTALLATION INSPECTIONS AND DELIVER CERTIFICATES APPROVING INSTALLATION TO THE OWNER.
- 1.4 UTILITY SERVICE  
DETERMINE UTILITY REQUIREMENTS, INCLUDING TEMPORARY, AND INCLUDE ALL COSTS.
- 1.5 SHOP DRAWINGS  
SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT AND SYSTEMS.
- 1.6 EQUIPMENT ACCESS  
INSTALL ALL WORK TO PERMIT ACCESS TO EQUIPMENT FOR MAINTENANCE.
- 1.7 CUTTING AND PATCHING  
ALL CUTTING AND PATCHING IS BY THIS CONTRACTOR INCLUDING NECESSARY MATERIALS REQUIRED, UNLESS OTHERWISE NOTED.
- 1.8 HOUSEKEEPING AND CLEANUP  
PERIODICALLY REMOVE WASTE MATERIALS AND LEAVE AREAS OF WORK ROOM CLEAN.

### 2.0 PLUMBING SYSTEMS

- 2.1 PROHIBITED LOCATIONS  
WATER CARRYING PIPE SHALL NOT BE INSTALLED OVER SWITCH GEAR OR ELECTRICAL EQUIPMENT.

### 2.2 PROTECTIVE CHASES

- A. PIPE AND FITTINGS
1. ABOVE AND BELOW GRADE: SCHEDULE-40 PVC DWV CONFORMING TO ASTM D2665-82.
- 2.3 WATER DISTRIBUTION

#### A. PIPE AND FITTINGS

COPPER TUBE, TYPE-K, BELOW GROUND. TYPE-L, ABOVE GROUND, WROUGHT COPPER OR BRONZE SWEAT FITTINGS WITH LEAD FREE SOLDER.  
COPPER PIPING SHALL NOT COME IN CONTACT WITH CONCRETE. PROVIDE INSULATING MATERIAL BETWEEN THE PIPE AND CONCRETE AT ALL REQUIRED LOCATIONS.

#### B. VALVES

1. BALL VALVES TWO INCHES (2") AND SMALLER BY MILWAUKEE (OR APPROVED EQUAL) MODEL #BA-150 RATED AT 150 SWP, 600 CWP. BODY OF ASTM B-584 BRONZE WITH CHROME PLATED ASTM B-16 BRASS BALL WITH GLASS REINFORCED PTFE SEATS AND STERN SEAL. FULL PORT FLOW AND ADJUSTABLE PACKING NUT.
2. GATE VALVES TWO INCHES (2") AND SMALLER. NRS, MSS SP-80; CLASS 125 (125 SWP/200 CWP). BODY BONNET AND STEM OF ASTM B-62 BRONZE. THREADED ENDS TO ANSI B1.20.1, SOLDER ENDS TO ANSI B16.18. SOLID WEDGE DISC, GLAND PACKED WITH NON-ASBESTOS PACKING AND MALLEABLE IRON HANDWHEEL.
3. GATE VALVES TWO AND ONE-HALF INCHES (2-1/2") AND LARGER. NRS, MSS SP-70; CLASS 125 (125 SWP/200 CWP). BODY AND BONNET OF ASTM A128 CLASS B CAST IRON, ASTM B-16 BRASS STERN AND ASTM B-62 BRONZE SEAT AND DISC FACE. FLANGED ENDS TO ANSI B16.1. NON-ASBESTOS PACKING.

#### C. DISSIMILAR METALS

INSTALL APPROVED DIELECTRIC UNIONS BETWEEN ALL CONNECTIONS OF DISSIMILAR METALS.

### 2.4 CAR WASH CHASE WAY, DRAINS AND SUPPLY LINES

- A. RECLAMATION DRAINAGE PIPE, SECTION LINES AND OZONE TREATMENT LINES AND FITTINGS.

#### 1. (IF PERMITTED BY LOCAL OR APPLICABLE CODES) ALL RECLAIM DRAINAGE LINES, SUCTION LINES, OZONE TREATMENT LINES AND RELATED FITTINGS SHALL BE SCHEDULE-80 POLYVINYL CHLORIDE (PVC) PIPING CONFORMING TO ASTM D-1785-83.

2. MECHANICAL ENGINEER TO VERIFY LOCAL OR APPLICABLE CODES AND SPECIFY ALTERNATE MATERIAL IF PVC IS NOT PERMITTED.

### 2.5 PNEUMATIC LINES

#### A. PNEUMATIC SUPPLY LINES

1. ALL PNEUMATIC SUPPLY LINES SHALL BE TYPE-K COPPER TUBE WITH WROUGHT COPPER OR BRONZE SWEAT FITTINGS ABOVE GRADE. NO FITTINGS SHALL BE ALLOWED BELOW GRADE.
2. ALL PNEUMATIC SUPPLY LINES BELOW GRADE SHALL BE ENCASED IN SCHEDULE-40 CHASEWAYS.

### 2.6 HYDRAULIC HOSE

#### A. PIPE AND FITTINGS

1. ALL HYDRAULIC HOSE SHALL BE SAE-100R7 BY SWYFLEX (OR APPROVED EQUAL) WITH 2,000 PSI WORKING PRESSURE; 10,000 PSI BURST PRESSURE. ALL HYDRAULIC SUPPLY LINES BELOW GRADE SHALL BE ENCASED IN SCHEDULE-40 PVC CHASEWAYS.
- 2.7 PRESSURE TEST  
LEAVE UNCOVERED AND UNCONCEALED ALL WATER DISTRIBUTION PIPING UNTIL IT HAS TESTED AND APPROVED. EXPOSE ALL SUCH WORK FOR TESTING THAT HAS BEEN COVERED OR CONCEALED BEFORE IT HAS BEEN TESTED AND APPROVED.

CAP AND SUBJECT THE PIPING SYSTEM TO A STATIC WATER PRESSURE OF 150 PSIG WITHOUT EXCEEDING THE PRESSURE RATING OF THE PIPING SYSTEM MATERIALS. ISOLATE THE TEST SOURCE AND ALLOW TO STAND FOR A PERIOD OF FOUR HOURS. LEAKS AND LOSS IN TEST PRESSURE CONSTITUTE DEFECTS WHICH MUST BE REPAIRED. REPAIR ALL LEAKS AND DEFECTS USING NEW MATERIAL AND RETEST SYSTEM OR PORTION THEREOF UNTIL SATISFACTORY RESULTS ARE OBTAINED.  
TESTING REQUIREMENTS ARE MINIMUM AND ARE NOT INTENDED TO BE LIMITING WHERE ADDITIONAL TESTING METHODS ARE REQUIRED BY THE AUTHORITY HAVING JURISDICTION.

### 2.8 WATER HEATING

- A. SONNY'S PROVIDED EQUIPMENT  
GENERAL CONTRACTOR OR HIS DESIGNATED SUBCONTRACTOR SHALL OBTAIN A BILL OF MATERIALS FROM SONNY'S FOR EQUIPMENT BEING SUPPLIED BY SONNY'S.
- B. INSTALLATION & CONNECTIONS  
GENERAL CONTRACTOR OR HIS DESIGNATED SUBCONTRACTOR SHALL INSTALL ALL TUBING, MANIFOLDS, VALVES, VALVES BOXES, HEATERS, BOILERS, STORAGE TANKS, PUMPS, AND RELATED EQUIPMENT FURNISHED BY SONNY'S. ALSO, G.C. SHALL PROVIDE AND INSTALL, AS NECESSARY, ALL GAS SUPPLY PIPING AND CONNECTIONS, VENTING AND ANY INTERCONNECTING PIPING FROM MANIFOLDS, BOXES, PUMP, HEATERS OR RELATED EQUIPMENT W/SUITABLE SPEC. MATERIALS.

NOT FOR CONSTRUCTION UNTIL APPROVED BELOW.

APPROVED BY. \_\_\_\_\_

DATE \_\_\_\_\_

**DISCLAIMER**  
ALTHOUGH BUILDING CODES HAVE BEEN CONSIDERED IN DEVELOPING THIS DRAWING, VERIFICATION OF SITE SPECIFIC CONDITIONS AND COMPLIANCE WITH FEDERAL, STATE AND LOCAL BUILDING CODES IS THE EXCLUSIVE RESPONSIBILITY OF THE CUSTOMER AND/OR ARCHITECT AND ENGINEER.  
THESE DRAWINGS REFLECT REQUIREMENTS FOR SONNY'S FURNISHED EQUIPMENT ONLY UNLESS OTHERWISE NOTED. PLEASE REFER TO OTHER MANUFACTURERS, IF ANY, FOR THEIR EQUIPMENT REQUIREMENTS.

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**CWP-06370-B11-RAINFOREST-HATT.**

SCALE: N.T.S.

LOCATION: LA

Sheet 17 Rev. --

**DIVISION OF WORK  
PLUMBING**



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REVISED BY:	JCH
CHECKED BY:	Luis V.