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SEAL

Joseph H. Griner III, P.E. FL. 39491

SCALE: N.T.S.

PLUMBING COVER SHEET

SHEET NUMBER
P-1.0
X OF X

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1628 First Avenue North
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Date	06-15-2017
Drawn	JL
Designed	JL
EOR	JHG
Job no.	17049

SHEET	DESCRIPTION
P-1.0	PLUMBING COVER SHEET
P-2.0	PLUMBING SITE PLAN
P-3.0	OVERALL PLUMBING SUPPLY PLAN
P-3.1	OVERALL PLUMBING SANITARY PLAN
P-3.2	OVERALL GAS PLAN
P-3.3	PLUMBING ROOF PLAN
P-4.0	ENLARGED PARTIAL SUPPLY PLANS
P-4.1	ENLARGED PARTIAL SANITARY PLANS
P-5.0	PLUMBING SCHEDULES
P-6.0	SUPPLY RISER
P-6.1	SANITARY RISER
P-6.2	GAS RISER
P-7.0	PLUMBING DETAILS
P-7.1	PLUMBING DETAILS
P-8.0	PLUMBING SPECIFICATIONS

SERVICE SIZE CALCULATIONS						
FIXTURE	QUANTITY	TYPE	F.U.	TOTAL F.U.	D.F.U.	TOTAL D.F.U.
BATHROOM GROUP (TANK)	0	PRIVATE	3.80	0.00	5.00	0.00
BATHROOM GROUP (VALVE)	0	PRIVATE	8.00	0.00	5.00	0.00
BATHTUB	0	PRIVATE	1.40	0.00	2.00	0.00
BATHTUB	0	PUBLIC	4.00	0.00	2.00	0.00
BIDET	0	PRIVATE	2.00	0.00	1.00	0.00
DISHWASHER	1	PRIVATE	1.40	1.40	2.00	2.00
DRINKING FOUNTAIN	2		0.25	0.50	0.50	1.00
KITCHEN SINK	1	PRIVATE	1.40	1.40	2.00	2.00
KITCHEN SINK	0	COMMERCIAL	4.00	0.00	2.00	0.00
LAVATORY	1	PRIVATE	0.70	0.70	1.00	1.00
LAVATORY	6	PUBLIC	2.00	12.00	1.00	6.00
SERVICE SINK	2		3.00	6.00	2.00	4.00
SHOWER	1	PRIVATE	1.40	1.40	2.00	2.00
SHOWER	4	PUBLIC	4.00	16.00	2.00	8.00
URINAL 3/4" VALVE	2	PUBLIC	5.00	10.00	2.00	4.00
URINAL 1" VALVE	0	PUBLIC	10.00	0.00	2.00	0.00
URINAL (TANK)	0	PUBLIC	3.00	0.00	2.00	0.00
LAUNDRY TRAY	0		1.40	0.00	2.00	0.00
WASHING MACHINE 8LB	0	PRIVATE	1.40	0.00	2.00	0.00
WASHING MACHINE 8LB	1	PUBLIC	3.00	3.00	3.00	3.00
WASHING MACHINE 15LB	0	PUBLIC	4.00	0.00	3.00	0.00
COMMERCIAL WASHER	0	PUBLIC	15.00	0.00	5.00	0.00
WATER CLOSET (VALVE)	1	PRIVATE	6.00	6.00	3.00	3.00
WATER CLOSET (TANK)	0	PRIVATE	2.20	0.00	4.00	0.00
WATER CLOSET (VALVE)	6	PUBLIC	10.00	60.00	4.00	24.00
WATER CLOSET (TANK)	0	PUBLIC	5.00	0.00	4.00	0.00
HOSE BIBB/WALL HYDRANT	5		5.00	25.00	0.00	0.00
POOL MAKEUP	0		20.00	0.00	0.00	0.00
FLOOR DRAINS	15		0.00	0.00	2.00	30.00
			TOTAL	143.4000	TOTAL	90.0000
WATER MAIN			2"		SEWER MAIN	4"

PLUMBING GENERAL NOTES:

- THE PLUMBING CONTRACTOR SHALL VERIFY THESE DRAWINGS WITH EXISTING FIELD CONDITIONS AND SHALL COORDINATE WITH CIVIL ENGINEER LOCATIONS AND ELEVATIONS OF PLUMBING SERVICE LINES BEFORE PROCEEDING WITH CONSTRUCTION. THE WATER, SANITARY SEWER, STORM & GAS SERVICE LINES SHOWN ON THE DRAWINGS ARE FOR REFERENCE & BUILDING PERMIT ONLY. REFER TO CIVIL ENGINEER'S DRAWINGS FOR DRAINAGE & WATER SERVICE LINES LAY-OUT & DETAILS.
- PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL COMPLETE SANITARY AND DOMESTIC WATER PIPING SYSTEMS, INCLUDING ALL ASSOCIATED DEVICES, EQUIPMENT, CONTROLS, CONNECTIONS TO BUILDING SERVICE LINES, SUPPORTS, AND HARDWARE REQUIRED FOR THE SATISFACTORY OPERATION OF THE SYSTEMS.
- PLUMBING CONTRACTOR SHALL PROVIDE ROUTING AND OFFSETS NECESSARY TO AVOID CONFLICT WITH STRUCTURE, FINISHES AND WORK OF OTHER TRADES AS REQUIRED.
- PIPING SYSTEMS SHOWN ARE DIAGRAMATIC AND ARE NOT INTENDED TO INDICATE EXACT INSTALLED LOCATIONS OR CONFIGURATIONS.
- COORDINATE EXACT LOCATION, SIZE AND ELEVATIONS OF ANY REQUIRED PIPE SLEEVES IN NEW STRUCTURE WITH STRUCTURAL ENGINEER.
- BAND IRON, TIE WIRE, METAL STRAPPING OR WIRE STRAPPING SHALL NOT BE PERMITTED TO SUPPORT PIPING OR EQUIPMENT.
- INSTALL ALL PIPING TO ALLOW FOR FUTURE EXPANSION.
- ALL HOT WATER COPPER PIPING TO BE INSULATED WITH 1" PIPE INSULATION. ALL OPENINGS THROUGH FIRE RATED WALLS OR FLOORS SHALL BE SEALED AS PER U.L. LISTED PENETRATION AND SHALL MAINTAIN THE FIRE RATED INTEGRITY OF THE WALL OR FLOOR. THE CONTRACTOR SHALL VERIFY FIRE RATINGS WITH ARCHITECTURAL DRAWINGS PRIOR TO INSTALLATION.
- PROVIDE ACCESS PANELS AT ALL PLACES WHERE EQUIPMENT AND DEVICES REQUIRING SERVICE ARE CONCEALED BEHIND INACCESSIBLE CEILINGS AND WALLS. SUCH DEVICES INCLUDE, BUT ARE NOT LIMITED TO, CLEANOUTS, WATER HAMMER ARRESTORS AND VALVES. COORDINATE EXACT LOCATION WITH ARCHITECT PRIOR TO ROUGH-IN.
- CONSTRUCTION AND THICKNESS OF WALLS AND PARTITIONS FOR PLUMBING PIPING OR EQUIPMENT SHALL BE AS REQUIRED BY PLUMBING EQUIPMENT MANUFACTURER'S INSTALLATION REQUIREMENTS AND INSTRUCTIONS.
- ALL PIPING AND FITTINGS EXPOSED TO VIEW SHALL HAVE A POLISHED CHROME FINISH UNLESS OTHERWISE NOTED.
- ALL PLUMBING WORK SHALL COMPLY WITH FLORIDA BUILDING CODES - BUILDING, -PLUMBING, -MECHANICAL, AND -FUEL GAS CODE; LATEST EDITION WITH LATEST AMENDMENTS (INCLUDING LOCAL) AND ALL OTHER CODES RECENTLY ADOPTED BY STATE FIRE MARSHALL'S RULE.
- COORDINATE EXACT LOCATIONS OF FLOOR DRAINS, WATER STUB UP, AND STUB UP IN POOL EQUIPMENT ROOM WITH POOL CONTRACTOR BEFORE ROUGH-IN.

DOMESTIC WATER PIPING NOTES:

- BELOW GROUND WATER PIPING SHALL BE TYPE "K" COPPER WITH VINYL SLEEVE FOR CORROSION PROTECTION WITH WROUGHT COPPER FITTINGS AND LEAD FREE 95% SOLDERED JOINTS.
- ABOVE GROUND WATER PIPING SHALL BE TYPE "L" COPPER.
- THE SITE SUBCONTRACTOR SHALL PROVIDE THE BACKFLOW PREVENTER AND THE WATER METER.
- PROVIDE EACH FIXTURE WITH STOPS AND SUPPLIES. EXPOSED STOPS AND SUPPLIES SHALL BE CHROME PLATED WITH A CHROME PLATED ESCUTCHEON PLATE.
- PROVIDE UNION AND GASKET CONNECTIONS TO EQUIPMENT. PROVIDE DIELECTRIC PIPE WHERE DISSIMILAR METALS ARE CONNECTED.
- INSULATE ALL HOT WATER PIPING WITH 1" THICK, 3/8 LB DENSITY, RIGID FIBERGLASS INSULATION. INSULATE FITTINGS, VALVES AND ALL SIMILAR ITEMS. INSULATE WATER PIPE AND P-TRAP ELBOW AT ALL ADA COMPLIANT LAVATORIES. PROVIDE WATER HAMMER PROTECTION (PRECISION PLUMBING PRODUCTS SERIES 2000 OR EQUAL) AT EACH FIXTURE OR GROUP OF SIMILAR FIXTURES. FIELD TESTED MODELS ARE NOT ACCEPTABLE.
- PROVIDE VACUUM BREAKERS AS REQUIRED BY CODE.
- PROVIDE TRAP PRIMERS FOR ALL FLOOR DRAINS AS REQUIRED BY CODE.
- TEST ALL WATER PIPING AT 100 PSI FOR TWENTY FOUR HOURS AS REQUIRED BY CODE.
- STERILIZE ALL WATER PIPING IN ACCORDANCE WITH HEALTH DEPARTMENT REGULATIONS AND AMERICAN WATER WORKS SPECIFICATIONS.
- SUPPORT ALL WATER PIPING WITH PIPE HANGERS BY GRINNELL OR APPROVED EQUAL.
- PROVIDE ACCESS PANELS FOR ANY VALVES CONCEALED IN WALLS OR CEILING SPACE.

SANITARY WASTE & VENT PIPING NOTES:

- SANITARY WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC (ASTM-2665) WITH APPROVED PVC SOLVENT WELDED FITTINGS. PVC PIPING SHALL NOT BE RUN IN RETURN AIR PLENUMS OR FIRE RATED ASSEMBLIES. ANY PIPING LOCATED WITHIN PLENUM SPACES OR FIRE RATED WALLS SHALL BE SERVICE WEIGHT CAST IRON, NO HUB, WITH STAINLESS STEEL CLAMPS AND SHIELDS WITH NEOPRENE SEALING SLEEVES.
- ALL SANITARY WASTE PIPING UP TO 2 1/2" IN SIZE SHALL BE SLOPED AT 1/8" PER FOOT SLOPE. ALL LARGER SANITARY WASTE PIPING SHALL BE SLOPED AT 1/4" PER FOOT SLOPE.
- ALL VENTS THROUGH THE ROOF SHALL BE A MINIMUM OF 10'-0", OR AS REQUIRED BY CODE, AWAY FROM ANY OPENINGS INTO THE BUILDING AND FRESH AIR INTAKES.
- ALL VENTS THROUGH THE ROOF SHALL BE PROVIDED WITH FOUR LB SHEET LEAD FLASHING EXTENDING UPWARD AROUND THE PIPE AND TURNED DOWN INSIDE THE PIPE.
- ALL EXPOSED WASTE DRAINS OR PIPING SHALL BE CHROME PLATED WITH MATCHING ESCUTCHEONS.
- CLEANOUTS SHALL BE PROVIDED AT THE BASE OF EACH SANITARY WASTE OR SOIL STACK AT A MINIMUM OF 18" A.F.F. PER THE LATEST EDITION OF THE PLUMBING CODE.
- TEST SANITARY WASTE AND VENT PIPING BY MEANS OF A 10" WATER COLUMN FOR 24 HOURS OR AS REQUIRED BY THE LOCAL AUTHORITY.

GAS PIPING NOTES:

- GAS PIPING SHALL BE INSTALLED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE OR NFPA-54 WHERE REQUIREMENTS ARE MORE STRINGENT.
- ALL GAS EQUIPMENT SHALL BE AGA APPROVED.
- THE INSTALLATION SHALL BE FOR UNDILUTED PROPANE.
- THE INSTALLATION SUBCONTRACTOR SHALL BE LICENSED FOR THE INSTALLATION OF UNDILUTED PROPANE.
- GAS PIPING SHALL BE SCHEDULE 40, WELDED AND SEAMLESS, WROUGHT STEEL PIPE (ASME B36, 10). ANY GAS PIPING WHICH IS EXPOSED SHALL BE PAINTED WITH "RUSTOLEUM" PAINT. VERIFY COLOR WITH ARCHITECT.
- GAS PIPING SHALL BE HUNG TIGHT TO THE ROOF STRUCTURE, SUPPORTED WITH HANGERS BY GRINNELL OR EQUAL.
- BRANCH TAPS MUST BE MADE OFF OF THE TOP OF THE PIPING.
- CONNECTION TO EACH PIECE OF EQUIPMENT SHALL INCLUDE AN INVERTED TRAP, A GAS VALVE, A UNION AND A DIRT LEG.
- ALL GAS FLUES SHALL BE A MINIMUM OF 10'-0", OR AS REQUIRED BY CODE, AWAY FROM OPENINGS INTO BUILDING AND FRESH AIR INTAKES.

LINETYPE	DESCRIPTION
----	EXISTING SANITARY SEWER PIPING
----	EXISTING SANITARY VENT PIPING
----	EXISTING DOMESTIC COLD WATER PIPING
----	EXISTING DOMESTIC HOT WATER PIPING
----	EXISTING HOT WATER RECIRCULATION PIPING
---	EXISTING STORM PIPING
---	EXISTING ROOF OVERFLOW PIPING
---	EXISTING NATURAL GAS PIPING
---	EXISTING LP GAS PIPING
---	EXISTING MEDICAL AIR PIPING
---	EXISTING ACID WASTE PIPING
---	EXISTING ACID VENT PIPING
---	EXISTING MEDICAL CO2 PIPING
---	EXISTING MEDICAL EVAC VACUUM PIPING
---	EXISTING MEDICAL VACUUM PIPING
---	EXISTING NITROGEN PIPING
---	EXISTING NITROUS OXIDE PIPING
---	EXISTING OXYGEN PIPING
---	EXISTING DEIONIZED WATER PIPING
---	EXISTING REVERSE OSMOSIS PIPING
---	EXISTING GREASE WASTE PIPING
---	FUEL OIL RETURN PIPING
---	FUEL OIL SUPPLY PIPING
---	SANITARY SEWER PIPING (ABOVE GROUND)
---	SANITARY SEWER PIPING (BELOW GROUND)
---	SANITARY VENT PIPING
---	DOMESTIC COLD WATER PIPING
---	DOMESTIC HOT WATER PIPING
---	HOT WATER RECIRCULATION PIPING
---	STORM PIPING
---	ROOF OVERFLOW PIPING
---	NATURAL GAS PIPING
---	LP GAS PIPING
---	MEDICAL AIR PIPING
---	ACID WASTE PIPING
---	ACID VENT PIPING
---	MEDICAL CO2 PIPING
---	MEDICAL EVAC VACUUM PIPING
---	MEDICAL VACUUM PIPING
---	NITROGEN PIPING
---	NITROUS OXIDE PIPING
---	OXYGEN PIPING
---	DEIONIZED WATER PIPING
---	REVERSE OSMOSIS PIPING
---	GREASE WASTE PIPING
---	CONDENSATE PIPING
---	FORCED MAIN PIPING
---	INDIRECT DRAIN PIPING
---	COMPRESSED AIR PIPING
---	GRAY WATER WASTE PIPING

PIPE HANGER SPACING TABLE			
PIPE MATERIAL	PIPE SIZES (INCHES)	HORIZONTAL PIPE MAX. HANGER DISTANCE (FEET)	VERTICAL PIPE MAX. HANGER DISTANCE (FEET)
COPPER & COPPER ALLOY TUBING	1/2" & SMALLER	6	10
COPPER & COPPER ALLOY TUBING	3/4" & LARGER	10	10
COPPER & COPPER ALLOY PIPE	ALL	12	10
CAST IRON PIPE	ALL	4 *	15
STEEL PIPE	ALL	12	15
STAINLESS STEEL DRAINAGE SYSTEM	ALL	10	10 **
CPVC & PVC PIPE	ALL	4	10 **

NOTES:
* MAXIMUM HORIZONTAL SPACING OF CAST IRON PIPE HANGERS SHALL BE INCREASED TO TEN FEET WHERE 10' LENGTHS OF PIPE ARE USED.
** MIDSTORY GUIDE FOR SIZES 2" AND SMALLER
*** NOT ALL PIPE MATERIALS ON THIS TABLE WILL PERTAIN TO THIS PROJECT

ALL MATERIAL, DEVICES, AND EQUIPMENT MUST COMPLY WITH BUY AMERICAN REQUIREMENTS OF AMERICAN RECOVERY & REINVESTMENT ACT.

SYMBOL	DESCRIPTION
⊕	AIR ADMITTING VALVE IN BOX
⊕	AIR ADMITTING VALVE
⊕	BALANCING VALVE
⊕	BALL VALVE
⊕	VALVE IN UNDERGROUND BOX
⊕	BACKWATER VALVE
⊕	BACKWATER VALVE BELOW GRADE WITH EXTENSION
⊕	BACKWATER VALVE IN UNDERGROUND BOX
⊕	BUTTERFLY VALVE
⊕	CHECK VALVE
⊕	COMPRESSED AIR CONNECTION
⊕	GAS VALVE
⊕	GLOBE VALVE
⊕	MODULATING VALVE
⊕	PRESSURE RELIEF VALVE
⊕	RELIEF VALVE
⊕	SOLENOID VALVE
⊕	THERMOSTATIC MIXING VALVE
⊕	GATE VALVE
⊕	SUPPLY VALVE
⊕	WATER METER
⊕	GAS METER
⊕	REDUCED PRESSURE BACKFLOW PREVENTER
⊕	CLOTHES WASHER CONNECTION
⊕	FLOOR CLEANOUT
⊕	WALL CLEANOUT
⊕	YARD CLEANOUT
⊕	FLOOR DRAIN
⊕	FLOOR DRAIN WITH FUNNEL
⊕	FLOOR DRAIN WITH ROUND FUNNEL
⊕	FLOOR SINK WITH FULL GRATE
⊕	FLOOR SINK WITH HALF GRATE
⊕	FLOOR SINK WITH THREE-QUARTER GRATE
⊕	HUB DRAIN
⊕	ROOF DRAIN
⊕	ROOF OVERFLOW DRAIN
⊕	TRENCH DRAIN
⊕	HOSE BIBB
⊕	POINT OF NEW CONNECTION
⊕	VENT THROUGH ROOF
⊕	RECIRCULATION PUMP
⊕	WATER HAMMER ARRESTOR
⊕	SPLASH BLOCK
⊕	TRAP PRIMER
⊕	"P" TRAP
⊕	WALL HYDRANT
⊕	ATMOSPHERIC VACUUM BREAKER
⊕	PIPE DOWN
⊕	PIPE UP
⊕	CAPPED PIPE
⊕	CLEANOUT PLUG
⊕	UNION
⊕	TRAINER
⊕	SECTION FLOW
⊕	PLUMBING FIXTURE
⊕	ADA COMPLIANT FIXTURE
⊕	EXISTING FIXTURE/FIXTURE PROVIDED BY OTHERS
⊕	FIXTURE PROVIDED BY PLUMBING CONTRACTOR

NOTE:
SOME SYMBOLS AND ABBREVIATIONS SHOWN MAY NOT PERTAIN TO THIS PROJECT.

ABBREVIATION	DESCRIPTION
ADA	AMERICAN DISABILITIES ACT
A.F.F.	ABOVE FINISHED FLOOR
A.F.G.	ABOVE FINISHED GRADE
B.F.F.	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BV	BUTTERFLY INDICATING VALVE
BLDG	BUILDING
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNITS PER HOUR
C.E.	CIVIL ENGINEER
CONT	CONTINUED
COP	CLEANOUT PLUG
CPVC	CHLORINATED POLYVINYL CHLORIDE
CV	CHECK VALVE
CW	COLD WATER
D.F.U.	DRAINAGE FIXTURE UNITS
DIA.	DIAMETER
DN	DOWN
DWG	DRAWING
EA	EACH
E.C.	ELECTRICAL CONTRACTOR
EW	ELECTRIC WATER HEATER
EX.	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FD	FLOOR DRAIN WITH FUNNEL
FD-F	FLOOR DRAIN WITH ROUND FUNNEL
F.F.	FINISHED FLOOR
F.F.E.	FINISHED FLOOR ELEVATION
FLR.	FLOOR
F.P.C.	FIRE PROTECTION CONTRACTOR
FS	FLOOR SINK
FSB	FLOOR SINK WITH SEDIMENT BUCKET
FSH	FLOOR SINK WITH HALF GRATE
FSQ	FLOOR SINK WITH THREE-QUARTER GRATE
FT	FEET
F.U.	FIXTURE UNITS
GAL	GALLONS
G.C.	GENERAL CONTRACTOR
GPF	GALLONS PER FLUSH
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GW	GAS WATER HEATER
HD	HUB DRAIN
HP	HORSEPOWER
HR	HOUR
HW	HOT WATER
HWR	HOT WATER RECIRCULATION
KW	KILOWATTS
MAX.	MAXIMUM
MBTUH	THOUSANDS OF BTU PER HOUR
M.C.	MECHANICAL CONTRACTOR
MIN.	MINIMUM
MISC.	MISCELLANEOUS
NC	NORMALLY CLOSED
N.I.C.	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
P.C.	PLUMBING CONTRACTOR
P.R.A.	PROJECTED ROOF AREA
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
RAD.	RADIUS
RD	ROOF DRAIN
RO	ROOF OVERFLOW
RPBFP	REDUCED PRESSURE BACKFLOW PREVENTER
RL	RAINWATER LEADER
S.C.	SITE CONTRACTOR
SF	SQUARE FEET
SS	SANITARY SEWER STACK
TB	THRUST BLOCK
TD	TRENCH DRAIN
TP	TRAP PRIMER
TYP.	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V	VENT
VB	VACUUM BREAKER
V.I.F.	VERIFY IN FIELD
VS	VENT STACK
VTR	VENT THROUGH ROOF
WCD	WALL CLEANOUT
WH	WALL HYDRANT
WS	WATER STACK
YD	YARD CLEANOUT
Ø	DIAMETER

Order