GENERAL NOTES & PLUMBING SPECIFICATIONS

1. PROVIDE ALL LABOR AND MATERIALS NECESSARY TO COMPLETE THE SCOPE OF WORK INDICATED ON THE DRAWINGS AND NOTES IN ACCORDANCE WITH GENERALLY ACCEPTED STANDARDS AND THE INTERNATIONAL PLUBING CODE. PROVIDE ALL WORK BY LOCALLY LICENSED PLUMBERS AND APPROVED CONTRACTORS WITH MINIMUM 5 YEARS EXPERIENCE. ARRANGE FOR ALL INSPECTIONS BY THE COR.

2. CONTRACTOR SHALL GUARANTEE ALL WORK FOR WHICH MATERIALS ARE FURNISHED, FABRICATED OR FIELD ERECTED. ALL FACTORY ASSEMBLED EQUIPMENT FOR WHICH NO SPECIFIC MANUFACTURERS GUARANTEE IS FURNISHED, AND ALL WORK IN CONNECTION WITH INSTALLING MANUFACTURERS GUARANTEED EQUIPMENT. THIS CONTRACTORS GUARANTEE SHALL EXIST FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL CONTRACTING OFFICER ACCEPTANCE OF THE WORK AND SHALL APPLY TO DEFECTS IN MATERIAL AND TO DEFECTIVE WORKMANSHIP OF ANY KIND. PAY ALL EXPRESS SHIPPING CHARGES FOR WARRANTY REPAIR PARTS.

3. PROVIDE SCHEDULING AND NOTIFICATION TO PROJECT REPRESENTATIVE FOR SYSTEM SHUTDOWNS. RESTORE EXISTING EQUIPMENT AND SYSTEMS TO REMAIN TO PROPER WORKING OPERATION.

4. PROVIDE EMERGENCY SERVICE INFORMATION TO PROJECT REPRESENTATIVE.

5. ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE BY LICENSED PLUMBERS.

6. PROVIDE ALL WORK TO THE SATISFACTION OF THE COR.

7. PROVIDE ALL FIRE STOPPING OF PENETRATIONS, SEALING OF ROOF PENETRATIONS AND SUPPORTING OF EQUIPMENT. PROPERLY SEAL AND FLASH ALL ROOF PENETRATIONS.

8. LEGALLY DISPOSE OF ALL UNWANTED CONSTRUCTION DEBRIS. SUCH DEBRIS SHALL BECOME PROPERTY OF THE CONTRACTOR.

9. PROVIDE DIELECTRIC PIPING CONNECTIONS AT ALL DISSIMILAR MATERIAL JOINTS.

10. EVERY EFFORT HAS BEEN MADE TO ENSURE THE ACCURACY OF THE DRAWINGS AGAINST EXISTING SITE CONDITIONS. HOWEVER, THE CONTRACTOR WILL BE REQUIRED TO CHECK ALL DRAWINGS ISSUED TO HIM AGAINST CONDITIONS AT THE SITE. HE (THE CONTRACTOR) IS REQUIRED TO IMMEDIATELY REPORT TO THE CONTRACTING OFFICER'S REPRESENTATIVE (COR) ANY DISCREPANCY BETWEEN THE DRAWINGS AND EXISTING CONDITIONS. NO ALLOWANCE FOR ADDITIONAL PAYMENT WILL BE MADE FOR THE CONTRACTOR'S FAILURE TO VERIFY ALL EXISTING SITE CONDITIONS WITH THE CONTRACT DOCUMENTS.

11. ALL DETAILS ARE TYPICAL, THAT IS DETAILS APPLY TO ALL SIMILAR CONSTRUCTION NOT OTHERWISE DETAILED OR NOTED.

12. ALL MATERIALS REQUIRED TO BE RATED SHALL BEAR A MARK ON EACH RATED ITEM. PRESSURE TREATED WOOD SHALL BE MARKED WITH THE AWPB QUALITY MARK REQUIREMENTS. FIRE RETARDANT WOOD SHALL BE PROVIDED WITH UL LABEL ON EACH PIECE OF LUMBER OR PLYWOOD. EQUIPMENT SHALL BEAR A UL LABEL.

13. CONTRACTOR SHALL VERIFY ACTUAL LOCATIONS OF ALL UTILITIES PRIOR TO ANY DEMOLITION.

14. THE CONTRACTOR IS RESPONSIBLE FOR SAFEKEEPING OF EQUIPMENT AND MATERIALS INCLUDING THOSE SUPPLIED BY THE OWNER.

15. CONTRACTING OFFICER'S REPRESENTATIVE (COR) SHALL PROVIDE FINAL INTERPRETATIONS OF THE CONTRACT DOCUMENTS. COR SHALL DETERMINE EQUIVALENCY OF PROPOSED EQUAL PRODUCTS AND FABRICATION.

16. NOTIFY AND COORDINATE WITH CONTRACTING OFFICER BEFORE USING ANY VOLATILE OR FUME PRODUCING COMPOUNDS SUCH AS DUCT SEALANT, CLEANING FLUIDS AND INSULATION GLUE. PROVIDE MEANS OF TEMPORARY VENTILATION.

17. CONTRACTING OFFICER'S REPRESENTATIVE (COR) SHALL PROVIDE FINAL INTERPRETATIONS OF THE CONTRACT DOCUMENTS. COR SHALL DETERMINE EQUIVALENCY OF PROPOSED EQUAL PRODUCTS AND FABRICATION.

18. DETAILS MAY SHOW SELECTED REQUIRED FASTENER TYPES, SIZES AND LOCATIONS. WHERE FASTENERS ARE DETAILED OR SCHEDULED, SUCH FASTENERS SHALL NOT BE CONSIDERED A COMPLETE REPRESENTATION OF ALL FASTENING REQUIRED.

19. SECURE ALL NEW CONSTRUCTION WITH FASTENERS OF ADEQUATE SIZE AND AT PROPER SPACING TO INSURE THAT ALL MATERIALS WILL REMAIN SECURELY FIXED IN POSITIONS SHOWN.

20. CONTRACTOR SHALL PROVIDE ALL CABLING, CONNECTIONS AND CIRCUIT BREAKERS AS REQUIRED FOR CONTRACTORS USE OF OWNER POWER.

21. COORDINATE THE FINAL LOCATIONS OF PLUMBING LINES AND EQUIPMENT WITH ACTUAL FIELD LOCATIONS OF STRUCTURAL MEMBERS, LIGHTS, CONDUIT, DUCTWORK ETC. OFFSET OR RELOCATE PLUMBING LINES AS REQUIRED.

22. CONCEAL ALL HORIZONTAL RUNS OF DOMESTIC HOT, COLD, SANITARY, AND GAS PIPING, UNLESS OTHERWISE NOTED.

23. PROVIDE AND SET ALL SLEEVES THROUGH EXTERIOR AND INTERIOR FOUNDATION WALLS. COORDINATE WITH ARCHITECTURAL DRAWINGS.

24. ROUGH FOR AND CONNECT ALL ITEMS OF EQUIPMENT FURNISHED BY OTHERS WHICH REQUIRE WATER, WASTE, VENT OR GAS PIPING.

25. OBTAIN WATER SAMPLES FROM LOCAL WATER SUPPLY AND TEST FOR PRESENCE OF LEAD. LEAD LEVELS SHALL BE LESS THAN 15 PPB AS TESTED BY A CERTIFIED LABORATORY.

26. COORDINATE SANITARY INVERT ELEVATIONS WITH ACTUAL INVERT TIE–IN POINTS PRIOR TO ANY PIPING INSTALLATION. NOTIFY CONTRACTING OFFICER'S REPRESENTATIVE (COR) OF ANY CONFLICTS.

27. CONTRACTOR SHALL BE RESPONSIBLE FOR LEGAL OFF SITE DISPOSAL OF ALL EXCESS UNWANTED MATERIAL AND CONSTRUCTION DEBRIS DUE TO WORK OF HIS CONTRACT. SUCH MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR.

28. THE DRAWINGS ARE DIAGRAMMATIC. EXACT EQUIPMENT LOCATIONS, PIPE AND DUCT ROUTING SHALL BE GOVERNED BY FIELD CONDITIONS. FIELD COORDINATE ALL WORK BEFORE PURCHASING EQUIPMENT AND FABRICATING PIPE AND DUCT. NO EXTRAS SHALL BE PERMITTED FOR RESTOCKING, REFABRICATION OR REMOVAL OF INSTALLED WORK DUE TO LACK OF COORDINATION WITH FIELD CONDITIONS.

29. INSULATE ALL PLUMBING PIPING WITH FOIL FACED FIBERGLASS PIPE WRAP. ALL INSULATION PRODUCTS SHALL BE FIRE RETARDANT AND MEET NFPA 255 AND ASTM E84 COMPOSITE FLAME SPREAD AND SMOKE DEVELOPED RATINGS (NOT TO EXCEED 25/50). INSULATE DOMESTIC CW & HW SUPPLY AND RECIRC. PIPING 2" AND BELOW WITH 3/4" THICK; ABOVE 2" WITH 1" THICK. INSULATE EXPOSED TRAPS AND SUPPLY PIPES FOR THE DISABLED WITH PREFABRICATED FINISHED PRODUCTS WITH WHITE FINISH.

30. LEAK AND PRESSURE TEST PIPING AND DISINFECT POTABLE WATER PIPING IN ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE. CONCEALED OR BURIED PIPING SHALL BE TESTED AND INSPECTED BEFORE IT IS CONCEALED OR BACKFILLED.

31. ALL VALVES, STRAINERS AND UNIONS FOR POTABLE WATER SHALL BE RATED FOR THE INTENDED SERVICE AT 150 PSIG WORKING PRESSURE. PROVIDE BALL VALVES FOR SHUTOFF DUTY. PROVIDE CHROME PLATED FIXTURE VALVES AT EACH FIXTURE FOR SHUTOFF.

32. PLUMBING CW, HW & HWR PIPING SHALL BE MINIMUM COPPER TYPE L. PROVIDE DIELECTRIC FITTINGS AT DISSIMILAR METAL JOINTS. COPPER PIPE JOINTS SHALL BE SOLDERED. PROVIDE UNION OR SWIVEL CONNECTIONS AT CONTROL VALVES AND EQUIPMENT. STEEL PIPE SHALL BE GALVANIZED SCHEDULE 40 STEEL WITH THREADED, ROLL GROOVED OR WELDED JOINTS. PROVIDE UNION, GROOVED OR FLANGED JOINTS AT SHUTOFF VALVES, CONTROL VALVES AND EQUIPMENT.

33. ALL MATERIALS AND SHAPES INDICATED IN SECTIONS ARE CONTINUOUS UNLESS SPECIFICALLY NOTED OTHERWISE.

34. ALL PRODUCTS AND CONSTRUCTION INDICATED ON THE DRAWINGS AND SPECIFICATIONS SHALL BE CONSIDERED TO BE NEW UNLESS SPECIFICALLY NOTED AS EXISTING OR AS REUSED.

35. MINOR ITEMS OF WORK SUCH AS CUTTING, BLOCKING, TRIM, ETC., SHALL BE PERFORMED AS REQUIRED TO MAKE THE WORK COMPLETE AND SECURE WHETHER SHOWN OR NOTED ON THE CONTRACT DOCUMENTS OR NOT.

36. ALL MATERIALS SHALL BE AS SPECIFIED OR EQUAL AS APPROVED BY CONTRACTING OFFICER'S REPRESENTATIVE (COR). SPECIFIC MATERIALS SPECIFIED IS MEANT TO INDICATE QUALITY INTENT WHICH WILL BE USED AS A BASIS FOR COMPARISON WITH SUBSTITUTES SUBMITTED FOR APPROVAL. THE DECISION AS TO WHAT IS EQUAL IS TO BE DETERMINED BY THE CONTRACTING OFFICER'S REPRESENTATIVE (COR).

37. ALL DEBRIS SHALL BE REMOVED FROM THE WORK AREAS AND OCCUPIED AREAS AT THE END OF EACH DAY. ON SITE STORAGE OF MATERIALS SHALL BE AS DIRECTED AND APPROVED BY THE CONTRACTING OFFICER. ALL MATERIALS THAT ARE COMBUSTIBLE, OR NOT FIRE RETARDANT (SUCH AS WIRE AND SOLVENTS) SHALL BE REMOVED FROM THE PROJECT SITE AT THE END OF EACH WORK DAY UNLESS STORAGE AREAS ARE APPROVED BY THE CONSTRUCTION MANAGER.

38. THE CONTRACTING OFFICER'S REPRESENTATIVE (COR) SHALL HAVE THE RIGHT AT ALL TIMES TO EXAMINE THE WORK AND DETERMINE THE CONFORMANCE WITH THE REQUIREMENTS AND INTENT OF THE CONTRACT DOCUMENTS AS INTERPRETED BY THE CONTRACTING OFFICER'S REPRESENTATIVE (COR).

39. PORTIONS OF THE WORK ARE BASED ON BUILDING DRAWINGS PREPARED BY OTHERS. EVERY EFFORT HAS BEEN MADE TO ENSURE THE ACCURACY OF THE DRAWINGS AGAINST EXISTING SITE CONDITIONS. CONTRACTOR SHALL VISIT THE PROJECT SITE BEFORE SUBMITTING BID AND SHALL BECOME FAMILIAR WITH THE PROJECT CONDITIONS. THE CONTRACTOR SHALL ADVISE THE CONTRACTING OFFICER'S REPRESENTATIVE (COR) PRIOR TO BID OF DISCREPANCIES WHICH WILL PROHIBIT THE PREPARATION OF AN ALL–INCLUSIVE BID OR COST PROPOSAL.

40. OFFSET ALL EXPOSED PIPING, DRAINS, DUCT AND CONDUIT AS REQUIRED SO THAT THEY DO NOT RUN ACROSS EQUIPMENT ACCESS PANELS, LIGHTS, SPEAKERS, FIRE ALARM COMPONENTS AND OTHER CEILING OR EXPOSED STRUCTURE MOUNTED DEVICES.

41. ABOVEGROUND DOMESTIC WATER PIPING: USE THE FOLLOWING PIPING MATERIALS FOR EACH SIZE RANGE:
42. NPS 2 AND SMALLER: HARD COPPER TUBE, TYPE L; COPPER PRESSURE FITTINGS OR SOLDERED JOINTS.
43. NPS 2 AND LARGER: HARD COPPER TUBE, TYPE L WITH GROOVED ENDS; COPPER GROOVED–END FITTINGS; COPPER–TUBING, KEYED COUPLINGS; AND GROOVED JOINTS OR SOLDERED JOINTS.
44. NPS 1–1/4" AND SMALLER PEX OR PEX–AL–PEX TUBING WITH MANUFACTURER'S APPROVED FITTINGS AND MANIFOLDS, ASTM F876, ASTM F877, ASTM F1282.
45. NPS 4" AND SMALLER: GALVANIZED STEEL WITH THREADED OR GROOVED JOINTS. ASTM A53.
46. NPS 4" AND SMALLER: CPVC WITH GLUED JOINTS, ASTM D2846, ASTM F441, ASTM F442.
47. PEX PIPING MAY NOT BE USED IN RETURN AIR PLENUMS. CPVC MUST BE APPROVED FOR USE IN RETURN AIR PLENUMS.

48. UNDERGROUND DOMESTIC WATER PIPING NPS 2 AND SMALLER: SOFT COPPER TUBE, TYPE K SOLDERED JOINTS.
48. UNDERGROUND DOMESTIC WATER PIPING NPS 3 THRU 6: DUCTILE IRON WITH MECHANICAL RESTRAINED JOINTS, AWWA C151, AWWA C115.

49. NATURAL GAS STEEL PIPING SHALL BE BLACK STEEL SCHEDULE 40 PIPE WITH WELDED FITTINGS FOR GAS PIPE 3" AND LARGER AND WELDED OR SCREWED MALLEABLE IRON FITTINGS FOR PIPE SIZES 3" AND BELOW. PROVIDE GAS COPPER PIPING WITH SEAMLESS TYPE L WITH LISTED MECHANICAL OR FLARED JOINTS FOR SOFT TUBING ONLY 1/2" AND BELOW AND BRAZED JOINTS ABOVE 1/2" WITH BRAZING ALLOY HAVING A MELTING POINT ABOVE 1000F. ALL GAS VALVES, FITTINGS AND PIPING COMPONENTS SHALL BE LISTED FOR GAS SERVICE.

50. ABOVEGROUND, STORM, SOIL, WASTE, AND VENT PIPING: USE THE FOLLOWING PIPING MATERIALS FOR EACH SIZE RANGE:
51. NPS 1–1/4 THRU NPS 8: USE NPS 1–1/4 HUBLESS, CAST–IRON SOIL PIPING, SERVICE WEIGHT, ASTM 888;
52. COUPLINGS: NO–HUB COUPLING, STAINLESS STEEL BAND.
53. NPS 1–1/4 AND NPS 1–1/2: COPPER DWV TUBE, COPPER DRAINAGE FITTINGS, AND SOLDERED JOINTS (NOT AT URINALS).
54. NPS 1–1/2 TO NPS 8: SERVICE CLASS, CAST–IRON SOIL PIPING; HUB AND SPIGOT GASKETS; AND GASKETED JOINTS, ASTM A74.
55. NPS 1–1/2 TO NPS 4: COPPER DWV TUBE, COPPER DRAINAGE FITTINGS, AND SOLDERED JOINTS.
56. OPTION FOR VENT PIPING, NPS 2–1/2 AND NPS 3–1/2: HARD COPPER TUBE, TYPE M, COPPER PRESSURE FITTINGS; AND SOLDERED JOINTS.
57. NPS 1–1/2 TO NPS 8: PVC (TYPE DWV) WITH GLUED JOINTS; ASTM D2665; ASTM D2949.

58. PVC PIPING MAY NOT BE USED IN RETURN AIR PLENUMS. SEE MECHANICAL DRAWINGS FOR LOCATIONS.

59. UNDERGROUND, STORM, SOIL, WASTE, AND VENT PIPING: USE THE FOLLOWING PIPING MATERIALS FOR EACH SIZE RANGE:
60. NPS 3 TO NPS 5: SERVICE CLASS, CAST–IRON SOIL PIPING; HUB AND SPIGOT GASKETS; AND GASKETED JOINTS.
61. NPS 3 TO NPS 8: PVC (TYPE DWV) WITH GLUED JOINTS; ASTM D2665; ASTM D2949.

62. INSULATE HORIZONTAL STORM DRAIN PIPING AND ROOF DRAIN BODIES IN HEATED SPACES WITH 1" FIBERGLASS AND ALL SERVICE JACKET.

63. PIPE INSULATION SCHEDULES
A. PLUMBING SYSTEMS:
• DOMESTIC HOT WATER SUPPLY:
a. MAN MADE MINERAL FIBER INSULATION:
1) PIPE SIZE RANGE: ALL.
2) THICKNESS: 1–1/2 INCH.
• DOMESTIC HOT WATER RE–CIRCULATION:
a. MAN MADE MINERAL FIBER INSULATION:
1) PIPE SIZE RANGE: ALL.
2) THICKNESS: 1–1/2" INCH.
• DOMESTIC COLD WATER:
a. MAN MADE MINERAL FIBER INSULATION:
1) PIPE SIZE RANGE: ALL.
2) THICKNESS: 1 INCH.
b. ELASTOMERIC CELLULAR FOAM: 1 INCH THICK.
• ROOF DRAIN BODIES:
a. MAN MADE MINERAL FIBER INSULATION:
1) PIPE SIZE RANGE: ALL.
2) THICKNESS: 1/2 INCH.
b. ELASTOMERIC CELLULAR FOAM: 1/2 INCHES THICK.
• ROOF DRAINAGE ABOVE GRADE:
a. MAN MADE MINERAL FIBER INSULATION:
1) PIPE SIZE RANGE: ALL.
2) THICKNESS: 1/2 INCH.
b. ELASTOMERIC CELLULAR FOAM: 1/2 INCHES THICK.
• PLUMBING VENTS WITHIN 10 FEET OF EXTERIOR:
a. MAN MADE MINERAL FIBER INSULATION:
1) PIPE SIZE RANGE: ALL.
2) THICKNESS: 1/2 INCH.
b. ELASTOMERIC CELLULAR FOAM: 1/2 INCHES THICK.
B. PLUMBING SYSTEMS:
• NON–FACTORY INSULATED DOMESTIC HOT WATER STORAGE TANKS:
a. MINERAL FIBER BLANKET INSULATION: 1–1/2 INCHES THICK.
b. GLASS FIBER, RIGID INSULATION: 1–1/2 INCHES THICK WITH PVC JACKET.
• WATER SOFTENERS AND TANKS:
a. MAN MADE MINERAL FIBER INSULATION:
1) PIPE SIZE RANGE: ALL.
2) THICKNESS: 1/2 INCH WITH PVC JACKET.
b. ELASTOMERIC CELLULAR FOAM: 1/2 INCHES THICK.

64. BALL VALVES: 2 PIECE, BRONZE BODY, FULL PORT, CHROME PLATED BRONZE BALL, THREADED OR SOLDERED ENDS, BLOWOUT PROOF STEM, NSF 61 COMPLIANCE.

65. GATE VALVES: CLASS 125 BRONZE BODY, BRONZE SOLID WEDGE, NSF 61 COMPLIANCE.

66. ALL PLUMBING FITTINGS AND SPECIALTIES SHALL BE APPROVED FOR USE WITH POTABLE WATER (NSF, AWWA OR FDA).

67. PRIOR TO START OF ALL WORK, COORDINATE THE REMOVAL, STORAGE AND / OR DISPOSAL OF INCIDENTAL ITEMS NOT PERMANENTLY AFFIXED TO THE BUILDING WITH THE CONTRACTING OFFICER.

68. INSTALL NEW CONSTRUCTION USING MATERIALS, TYPE AND METHOD OF ANCHORAGE IN SUCH A WAY AS TO PROVIDE FOR EXPANSION AND CONTRACTION OF THE EXISTING SUBSTRATE AND NEW CONSTRUCTION.

69. CONTRACTOR SHALL PROVIDE ALL MATERIALS, EQUIPMENT AND LABOR AS REQUIRED TO PROVIDE A COMPLETE INSTALLATION OF EQUIPMENT AND SYSTEMS AS RECOMMENDED BY MANUFACTURER'S INSTALLATION INSTRUCTIONS.

70. PROVIDE ALL NECESSARY SUPPORTS, CLAMPS, BRACKETS, ANGLES, MISCELLANEOUS STEEL AND OTHER ITEMS AS REQUIRED FOR PROPER SUPPORT OF DUCTWORK AND CONTROL WIRING IN ACCORDANCE WITH MSS SP–58 & SP–69, SMACNA AND THE NEC.

71. ALL LOW VOLTAGE CONTROL WIRING SHALL BE MINIMUM 18 GA TWISTED PAIR. ALL CONTROL WIRING SHALL BE RUN IN EMT AND INSTALLED PER NEC. FIRE RETARDANT CABLE MAY BE INSTALLED WITHOUT EMT IN CONCEALED SPACES WITH TEFLON COATED WIRING RUN IN VOIDS OF WALLS AND OTHER BUILDING CONSTRUCTION. PROVIDE ALL COMPONENTS AND LABOR REQUIRED FOR A COMPLETE CONTROL SYSTEM FOR ALL EQUIPMENT. PROVIDE SHIELDED CABLE WHEN REQUIRED BY CONTROL EQUIPMENT MANUFACTURER.

72. NOTIFY AND COORDINATE WITH CONTRACTING OFFICER BEFORE USING ANY VOLATILE OR FUME PRODUCING COMPOUNDS SUCH AS DUCT SEALANT, CLEANING FLUIDS AND INSULATION GLUE. PROVIDE MEANS OF TEMPORARY VENTILATION.

73. CONTRACTOR SHALL PROVIDE ALL CABLING, CONNECTIONS AND CIRCUIT BREAKERS AS REQUIRED FOR CONTRACTORS USE OF OWNER POWER.

74. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING CORRESPONDENCE AND FOLLOW–UP CORRESPONDENCE WITH ALL APPROPRIATE PARTIES IN ORDER TO MAINTAIN THE PROJECT CONSTRUCTION AND DELIVERY SCHEDULE. CONTRACTOR SHALL DELIVER SUBMITTALS WITH ADEQUATE REVIEW TIME PER SPECIFICATIONS AS NEEDED TO ORDER EQUIPMENT. FAXED SUBMITTALS WILL NOT BE ACCEPTED. "RUSH" REVIEW OF SUBMITTALS MAY NOT BE PROVIDED SIMPLY AS A MEANS TO ACCELERATE DELIVERY SCHEDULES. PROVIDE EQUIVALENT PRODUCTS BY OTHER THAN SPECIFIED MANUFACTURERS, WHEN APPROVED BY CONTRACTING OFFICER'S REPRESENTATIVE (COR), AS NEEDED TO MEET THE CONSTRUCTION SCHEDULE UNLESS EQUIVALENT MANUFACTURERS ARE PROHIBITED, OR A SELECT GROUP OF MANUFACTURERS ARE GIVEN.

75. PROVIDE APPLICABLE SUBMITTALS FOR EQUIPMENT AND FIXTURES TO CONTRACTING OFFICER'S REPRESENTATIVE (COR) FOR REVIEW BEFORE ORDERING EQUIPMENT. COORDINATE SCHEDULING OF WORK TO ALLOW A MINIMUM OF TWO TO THREE WEEKS FOR REVIEW TIME PLUS DELIVERY TIME. FAXED SUBMITTALS WILL NOT BE ACCEPTED. INADEQUATE SUBMITTALS WILL BE RETURNED FOR RESUBMISSION. SUBMITTALS WILL BE DEEMED INADEQUATE IF THEY ARE THE WRONG PRODUCT, INCORRECT NUMBER OF COPIES OR DO NOT SPECIFY WHICH PRODUCT IS BEING SUBMITTED WHEN MULTIPLE PRODUCTS ARE INCLUDED WITH MANUFACTURER'S DATA. SUBMITTALS MARKED AS MAKE CORRECTIONS NOTED MAY BE CONSIDERED SUITABLE FOR ORDERING EQUIPMENT IF CORRECTIONS ARE COMPLIED WITH. PROVIDE ALTERNATE OR EQUIVALENT MANUFACTURERS WHEN REQUIRED FOR DELIVERY TO MEET THE CONSTRUCTION SCHEDULES. CONTRACTING OFFICER'S REPRESENTATIVE (COR) SHALL DETERMINE IF A PRODUCT IS EQUIVALENT. CONTRACTOR SHALL VERIFY THAT EQUIVALENT PRODUCTS HAVE THE PROPER SUPPORT AND CLEARANCES NEEDED FOR INSTALLATION.

76. CONTRACTING OFFICER'S REPRESENTATIVE (COR)'S REVIEW OF SUBMITTALS AND SHOP DRAWINGS CALLED FOR IN THE CONTRACT DOCUMENTS IS TO DETERMINE IF THE CONTRACTOR UNDERSTANDS THE CONTRACT DOCUMENTS. SUBMITTAL OR SHOP DRAWING REVIEW IS NOT INTENDED TO ASSURE THAT THE CONTRACTOR IS MEETING THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. CONTRACTING OFFICER'S REPRESENTATIVE (COR)'S REVIEW OF SUBMITTALS DOES NOT RELIEVE CONTRACTOR'S OBLIGATION FOR SUPPLYING CORRECT VOLTAGE, QUANTITIES, MOUNTING DETAILS OR OTHER MEANS AND METHODS OF CONSTRUCTION. CONTRACTING OFFICER'S REPRESENTATIVE (COR)'S REVIEW OF SHOP DRAWINGS AND SUBMITTALS DOES NOT ASSUME RESPONSIBILITY FOR ANY ASPECTS OF A SHOP DRAWING SUBMISSION THAT AFFECT THE MEANS, METHODS, QUANTITIES, TECHNIQUES, SEQUENCES, OR PROCEDURES OF CONSTRUCTION OR FOR SAFETY PRECAUTIONS (ALL OF WHICH ARE ASSUMED TO BE THE CONTRACTOR'S RESPONSIBILITY).

77. REQUESTS FOR PRODUCT SUBSTITUTIONS SHALL NOT BE MADE WITH EQUIPMENT SUBMITTALS. ONLY WRITTEN REQUESTS FOR PRODUCT SUBSTITUTIONS WILL BE CONSIDERED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT SUBSTITUTED ITEMS ARE FULLY COORDINATED BETWEEN ALL TRADES AND CAN BE INTEGRATED WITHIN THE BUILDING STRUCTURE WITH PROPER SUPPORT AND CLEARANCES.

78. PLUMBING EQUIPMENT CONTROL PANELS, FACTORY EQUIPMENT CONTROL PANELS, BOOSTER AND WASTE PUMP CONTROL PANELS SHALL HAVE A MINIMUM SCCR OF 35KA AND THE SCCR RATING SHALL BE LISTED ON THE PANEL.

79. SEAL SMOKE PARTITION PENETRATIONS SMOKE TIGHT WITH APPROVED SEALANT. SEAL FIRE RATED AND SMOKE/FIRE RATED PENETRATIONS WITH APPROVED SEALANT. SEE ARCHITECTURAL LIFE SAFETY PLAN FOR LOCATIONS OF SMOKE AND FIRE RATED PARTITIONS AND BARRIERS.

GENERAL NOTES

1. A LICENSED PLUMBER SHALL CHECK AND INSPECT EXISTING PIPING FOR SUITABILITY OF REUSE.
2. NOTIFY CONTRACTING OFFICER'S REPRESENTATIVE (COR) OF ANY CORRODED OR BRASS PIPING.
3. NOTIFY CONTRACTING OFFICER'S REPRESENTATIVE (COR) OF ANY LEAD WATER PIPING.
4. COORDINATE REMOVALS WITH ARCHITECTURAL DRAWINGS.
5. VERIFY DIMENSIONS FOR PLACEMENT OF NEW PLUMBING FIXTURES WITH ARCHITECTURAL PLANS AND ELEVATIONS.
6. ACTUAL TIE–IN POINTS OF NEW PIPING TO EXISTING ARE NOT SHOWN. VERIFY ACTUAL LOCATIONS OF EXISTING PIPING PRIOR TO PERFORMING NEW WORK. RESOLVE CONFLICTS TO THE SATISFACTION OF THE CONTRACTING OFFICER'S REPRESENTATIVE (COR).
7. ALL DEMOLITIONED PIPING NOT EXTENDED FOR NEW WORK SHALL BE REMOVED BACK TO RISERS OR MAINS AND CAPPED.
8. DO NOT ASSUME ANY EXISTING VALVES CLOSE LEAK TIGHT. MAKE PROVISIONS FOR NEW CONNECTIONS BY DRAINING SYSTEM OR USE OF FREEZE KITS, OR OTHER MEANS TO ENSURE NEW CONNECTIONS CAN BE MADE TO EXISTING PIPING SYSTEMS.

LEGEND

SAN	SANITARY DRAINAGE – ABOVE
SAN	SANITARY DRAINAGE – BELOW
ST	STORM DRAINAGE – ABOVE
ST	STORM DRAINAGE – BELOW
	VENT PIPING
	COLD WATER
R	COLD WATER RETURN
	HOT WATER
T	TEMPERED HOT WATER (°F)
	HOT WATER RETURN
G	GAS PIPING
A	MEDICAL AIR PIPING
V	VACUUM PIPING
O	OXYGEN PIPING
EXSANST	EXISTING SANITARY/STORM DRAINAGE – ABOVE GRADE
EXSANST	EXISTING SANITARY/STORM DRAINAGE – BELOW GRADE
EXST	EXISTING STORM DRAINAGE – ABOVE GRADE
EXST	EXISTING STORM DRAINAGE – BELOW GRADE
EX	EXISTING VENT PIPING
EX	EXISTING COLD WATER
EXHP	EXISTING HIGH PRESSURE COLD WATER
EXLP	EXISTING LOW PRESSURE COLD WATER
EX	EXISTING HOT WATER
EX	EXISTING HOT WATER RETURN
EXG	EXISTING GAS PIPING
A	EXISTING MEDICAL AIR PIPING
V	EXISTING VACUUM PIPING
O	EXISTING OXYGEN PIPING
	CLEAN OUT WALL PLATE
	CLEAN OUT
	CLEAN OUT DECKPLATE
	CLEANOUT TO GRADE
	NON–FREEZE WALL HYDRANT
	FLOOR DRAIN
	FLOOR DRAIN WITH TRAP
	UNION
	SHUT–OFF VALVE
	GLOBE VALVE
	PLUG VALVE
	CHECK VALVE
	SOLENOID VALVE
	RELIEF VALVE
	STRAINER
	PRESSURE GAUGE
	THERMOMETER
	SHOCK ARRESTOR
	TRAP
	THERMOWELL
PA	PIPE ANCHOR
	POINT OF CONNECTION NEW TO EXISTING
	ELBOW – UP
	ELBOW – DN
	TEE
	BRANCH OFF TOP
	BRANCH OFF BOTTOM

FINAL DESIGN (100%)

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CONSULTANTS:

Hyman Hayes Associates, 6 Wembley Court, Albany, New York 12205 (518) 452-3410 (518) 452-3783 fax

HHA Proj 12035

ENGINEERING VENTURES PC, 208 Flynn Avenue, Suite 2A Burlington, VT 05401, tel: 802.863.6225 • fax 802.863.6306; 85 Mechanic Street, Suite B50A, Lebanon, NH 03766, tel: 603.442.5933 • fax 603.442.5931

Adelaide Environmental Health Associates, Inc., 1511 Route 22 - Suite C-24, Brewster, New York 10509, p: 845.278.7710 f: 845.278.7750, adelaidellc.com

STATE OF NEW YORK, MICHAEL J. SIGMUND, 089440, LICENSED PROFESSIONAL ENGINEER

ARCHITECT/ENGINEERS:

Sigma Psi Consulting, Mechanical, Electrical, Plumbing Engineers, PLLC
4 Collamer Road, Malta, NY 12020 PH (518) 581-9428 FX (518) 580-9325

Drawing Title: PLUMBING NOTES + LEGEND

Approved Project Director

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Location: Albany, New York

Date: 10-22-2014 | Checked | Drawn

Project Number: VA 528A8-12-801

Building Number: 1

Drawing Number: P0.1

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Office of Construction and Facilities Management

Department of Veterans Affairs

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