 **TYPICAL PLUMBING PLAN (7PLEX)**
SCALE: 1/8" = 1'-0"

PLUMBING NOTES:

- ① FINISHED FLOOR OF THE BUILDING. PLUMBING CONTRACTOR TO PROVIDE PHYSICAL BACKLOG PRESENTING MULTIPLE MODEL. "BUT NOT CONNECT 21" IN MOBILE BUILDING. VERIFY EXACT LOCATION IN MOBILE BUILDING DRAINAGES.
- ② CONNECT 21/2" DOMESTIC COLD WATER SERVICE AT THE PROPERTY TO THE LOCATION. SEE CONTINUATION IN CIVIL UTILITY DRAINAGES.
- ③ CONNECT 4" SANITARY SERVICE. AT THIS APPROXIMATE LOCATION. SEE CONTINUATION IN CIVIL UTILITY DRAINAGES.
- ④ PLUMBING CONTRACTOR TO PROVIDE WALL C/CLEANT (WC) AT THIS APPROXIMATE LOCATION. ZIRU MODEL. 21/4" - WALL CLEANT/DURA-COAT CAST IRON. BAY. ROUND SMOOTH STAINLESS STEEL COVER.

GENERAL NOTES

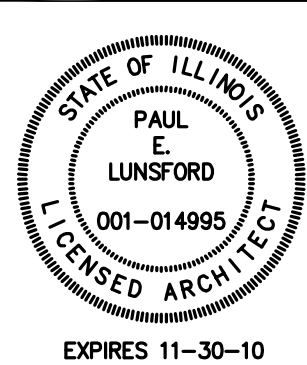
1. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE INTERNATIONAL PLUMBING CODE, 2004 EDITION AND LOCAL ADVERTISEMENTS.
 2. THIS CONTRACTOR PERFORMING WORK ON THE PROJECT MUST BE LICENSED TO PERFORM THE WORK. TRADESMEN SKILLED IN THE WORK TASK MUST PERFORM THE WORK.
 3. THIS CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE LOCATION OF EXISTING PIPES AND DRAINAGE SYSTEMS AND SCHEDULE HIS WORK AS NOT TO CAUSE DELAYS OR INTERFERENCE WITH THE WORK OF OTHERS. SUCH COORDINATION AND SCHEDULING SHALL ACCOMPANY THE INSTALLATION OF EQUIPMENT AND PIPING WITH A MINIMUM OF CUTTING THROUGH MASONRY AND OTHER ADJUSTMENTS.
 4. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER SIZE AND LOCATION OF ANCHORS, CHANGES, RECESSES, OPENINGS, ETC., REQUIRED FOR THE PROPER INSTALLATION OF HIS WORK. VERIFY ALL DIMENSIONS BY FIELD MEASUREMENTS. COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES AND SLEEVES IN STRUCTURAL COMPONENTS AS THEY ARE CONSTRUCTED. SEQUENCE COORDINATE AND INTEGRATE INSTALLATIONS OF MECHANICAL MATERIALS AND EQUIPMENT FOR EFFICIENT FLOW OF THE WORK.
 5. INSTALL EQUIPMENT AND MATERIALS TO PROVIDE REQUIRED ACCESS FOR SERVICING AND MAINTENANCE. COORDINATE THE FINAL LOCATION OF CONCEALED EQUIPMENT AND DEVICES BEFORE ANY FINISHES ARE APPLIED. LOCATIONS SHOULD BE REMOVED OR ALL PARTS THAT REQUIRE REPEL ACENTMENT OR EXTEND ALL GREASE FITTINGS TO AN ACCESSIBLE LOCATION. INSTAL SERVING EQUIPMENT TO FACILITATE MAINTENANCE AND REPAIR OR REPLACEMENT OF EQUIPMENT COMPONENTS. CONNECT EQUIPMENT FOR EACH OF DISCONNECTING WITH A MINIMUM OF INTERFERENCE WITH OTHER INSTALLATIONS. PROVIDE THE MINIMUM MANUFACTURER'S RECOMMENDED AND CODE REQUIRED CLEARANCE.
 6. VERIFY FINAL LOCATIONS FOR ROUGH-INS WITH FIELD MEASUREMENTS AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED.
 7. BEFORE SUBMITTING A BID, THIS CONTRACTOR IS REQUESTED TO VISIT THE JOB SITE TO FAMILIARIZE HIMSELF WITH CONSTRUCTION CONDITIONS. NO CONSIDERATION OR RENUNCIATION WILL BE GIVEN FOR HIS FAILURE TO DO SO.
 8. WHERE A DISCREPANCY EXISTS WITHIN THE SPECIFICATIONS, AMONG THE DRAWINGS, OR BETWEEN THE SPECIFICATIONS AND THE DRAWINGS, REFER TO DIVISION I.
 9. THE DESIGN DRAWINGS, AS SUBMITTED, ARE PHARMACUTIC AND ARE NOT INTENDED TO SHOW EXACT LOCATION OF EQUIPMENT PIPING AND DISCONNECTS. EXCESS DIMENSIONS ARE GIVEN. DRAWINGS ARE NOT TO BE SCALED.
 10. EQUIPMENT SHALL BE INSTALLED ALONG THE GENERAL ALIGNMENT INDICATED ON THE DRAWINGS, AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
 11. IF THIS CONTRACTOR PROPOSES TO INSTALL EQUIPMENT REQUIRING SPACE CONDITIONS OTHER THAN THOSE AS SPECIFIED AND/OR SHOWN ON THE DESIGN DRAWINGS, OR TO REARRANGE THE EQUIPMENT, HE SHALL ASSUME FULL RESPONSIBILITY FOR OBTAINING THE NECESSARY APPROVALS AND SHALL OBTAIN THE FULL APPROVAL OF THE DESIGN PROFESSIONAL BEFORE PROCEEDING WITH THE WORK.
 12. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ALL PIPE SLEEVES (1-1/2 TIMES THE SIZE OF PIPE) AND SHALL BE OF SIMILAR MATERIAL TO PREVENT REACTION BETWEEN PIPE AND SLEEVE.
 13. THIS CONTRACTOR SHALL PROVIDE AND INSTALL FIRE STOPPING IMMEDIATELY AS TO COMPLETELY SEAL ALL NEW PENETRATIONS OF FIRE RATED ASSEMBLIES, WALLS AND CEILING CAUSED BY THIS TRADE. THE SYSTEM SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS. FIRE STOPPING SYSTEMS HAVE BEEN TESTED IN ACCORDANCE WITH ASTM E-264 AND U. #4174 AND SHALL HAVE AN "R" RATING NOT LESS THAN THE REQUIRED RATING OF THE WALL PENETRATED. THE ANNULAR SPACE BETWEEN PIPE AND THE FIRE RATED ASSEMBLY SHALL BE FILLED WITH THE APPROVED MATERIAL SO AS TO MAINTAIN THE INTEGRITY OF THE FIRE RATING OF THE ASSEMBLY. PENETRATED INSULATION SHALL NOT PASS THROUGH FIRE RATED ASSEMBLIES.
14. THIS CONTRACTOR SHALL PROVIDE AND INSTALL ESOUTICHEON PLATES ON PIPES PASSING THROUGH WALLS. CONTRACTOR SHALL PROVIDE CHROME PLATED ESOUTICHEONS FOR ALL PIPES AT FIXTURE SUPPLIES, TRAPS AND OTHER APPURTANCES PASSING THROUGH WALLS.
 15. WHERE CONNECTIONS ARE MADE BETWEEN DISSIMILAR MATERIALS, DIELECTRIC UNIONS AND FLANERS SHALL BE USED TO PREVENT ELECTROLYTIC REACTION.
 16. ALL NEW DOMESTIC WATER PIPING WITHIN THE BUILDING AND AS SPECIFIED ON THE DRAWINGS SHALL BE INSULATED.
 17. ALL PRING SHALL BE SUSPENDED INDEPENDENTLY FROM BUILDING STRUCTURE. PIPING AND ACCESSORIES SHALL BE PROVIDED MAXIMUM CLEARANCE BELOW AND TO MINIMIZE ANY PIPE SWING AND INSTABILITY.
 18. PIPE HANGERS SHALL BE CONFIGURED AS TO ALLOW FOR PROPER PITCH AND EXPANSION OF PIPES. HANGERS FOR INSULATED PRING SHALL BE SUFFICIENT SIZE TO PERMIT INSULATION TO EXTEND THROUGH SAME. INSULATION PROTECTION SADDLE SHALL BE FRAMISHED AND INSTALLED AT EACH HANGER.
 19. WHERE A PIPE OR EQUIPMENT HANGER OCCURS BETWEEN THE BUILDING STRUCTURAL MEMBERS, CONTRACTOR SHALL PROVIDE SPECIAL STEEL ANGLE, CHANNEL OR INSTRUT BEMBERS TO SUPPORT OR SUCH ANCHORS WELDED OR BOLTED TO STRUCTURE OR ANCHORED TO CONCRETE.
 20. HANGERS OR SUPPORTS OF COTTER PIPE SHALL BE PROVIDED PLATED AT JOINTS TO CONTACT WITH CONCRETE, TO BE FREE FROM ELECTROLYSIS.
 21. VERTICAL PIPES SHALL BE SUPPORTED AT LEAST ONCE EACH STORY HEIGHT. RISER CLAMPS AND BASE OF RISER SHALL BE SECURED TO STRUCTURE TO ALLOW FOR PROPER PITCH AND EXPANSION OF PIPES.
 22. THIS CONTRACTOR SHALL LABEL PRING SYSTEMS WITH MANUFACTURED LABELS DESIGNATING THE PIPING SYSTEM AGAINST AN APPROVED COLOR CODE.
 23. THIS CONTRACTOR SHALL PRESURE TEST ALL PLUMBING PIPING IN THE PRESENCE OF A MUNICIPAL PLUMBING INSPECTOR AS REQUIRED BY THE METHODS REQUIRED BY THE GOVERNING AUTHORITIES.
 24. THIS CONTRACTOR SHALL DISINTEGRATE ALL DOMESTIC WATER SUPPLY PIPING IN ACCORDANCE WITH THE BUILDING CODE AND AS DIRECTED BY THE WATER UTILITY.
 25. THIS CONTRACTOR SHALL PROVIDE CLEAN OUTS ON SANITARY AND STORM PIPING AT EVERY CHANGE OF DIRECTION, A MAXIMUM OF 5'-0" ON CENTER IN STRAIGHT RUNS, AT THE END OF LINES WITHIN 5'-0" OF EXITING THE BUILDING, AND WHERE REQUIRED BY CODE. CONTRACTOR SHALL ANGLE CLEAN OUTS SO THEY OCCUR NEXT TO WALLS AND NOT IN TRAFFIC AREAS.
 26. THIS CONTRACTOR SHALL PROVIDE AT EACH FIXTURE SUPPLY CONNECTION BOTH HOT AND COLD WATER, AN AIR CHAMBER NOT LESS THAN 12 INCHES LONG ONE SIZE LARGER THAN THE FIXTURE SUPPLY. PROVIDE LONG ONE SIZE LARGER AT OTHER LOCATIONS NOT LESS THAN 12 INCHES LONG, ONE PIPE SIZE LARGER THAN PIPES ON WHICH THEY ARE INSTALLED.
 27. THIS CONTRACTOR SHALL PROVIDE AN APPROVED VACUUM BREAKER FOR EACH CONNECTION TO PLUMBING FIXTURE OR ITEM OF EQUIPMENT HAVING SUBMERGED INLET OR HOSE END. HOT AND COLD WATER LINES SHALL BE FITTED WITH STOPS PRIOR TO THE SERVICE CONNECTION OF EACH PIECE OF EQUIPMENT AT ROUGH-IN CONNECTION POINT.
 28. THIS CONTRACTOR SHALL INCLUDE INCIDENTAL DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER INSTALLATION AND ORIENTATION.
 29. CONTRACTOR SHALL INSTALL ALL FLOOR DRAINS, AREA DRAINS OR TRENCH DRAINS AT FLOOR FINISHES IN FLOOR, SEE ARCHITECTURAL DRAWINGS FOR FLOOR PITCHES AND EXACT LOCATIONS.
 30. ANY QUESTIONABLE INFORMATION IN THE DESIGN DOCUMENTS SHALL BE CALLED TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR CLARIFICATION BEFORE PROCEEDING WITH FABRICATION OR ERECTION OF PARTS AFFECTED. IF, IN THE OPINION OF THE CONTRACTOR, AN ADDITIONAL CLARIFICATION IS REQUIRED, THE CONTRACTOR SHALL ADVISE THE ARCHITECT/ ENGINEER AT HIS OWN EXPENSE, TOGETHER WITH THE BILL OF MATERIALS.
 31. ANY QUESTIONABLE INFORMATION IN THE DESIGN DOCUMENTS

PLUMBING SYMBOL LIST	
SYMBOL	DESCRIPTION
—SLO—	SANITARY LINE ABOVE FLOOR
—SLO—	SANITARY LINE BELOW FLOOR
—GWS—	GREASE WASTE LINE BELOW FLOOR
—V—V—	VENT PIPING
—V—V—	HOT WATER RECYCLED R/OV PIPING
—SW—	COLD WATER SUPPLY PIPING
—W—	HOT WATER SUPPLY PIPING
—ST—	RAIN WATER SERVICE PIPING
—ST—	STORM WATER PIPING
—SLO—	TRAP
—SLO—	ELBOW TURNED UP
—SLO—	ELBOW TURNED DOWN
—SLO—	TEE - TOP OUTLET
—SLO—	TEE - BOTTOM OUTLET
—SLO—	BALL VALVE
—SLO—	FLOOR DRAIN, DESIGNATION NUMBER
—SLO—	CLEANOUT - PLUG TYPE
—SLO—	PIPING DESIGNATION & NUMBER
—SLO—	HOT R/BW W/EV EJECTOR VACUUM BREAKER
—SLO—	WALL HANGING - WALL LINE DOUBLE CHECK VALVES

ABOVE GROUND DRAINAGE AND VENT PIPING		
MATERIAL	STANDARD	
CAST IRON PIPE, HUBLESS W/ GASKET AND S.S. CLAMP JOINTS	ASTM A74, CISP 301, ASTM A 888	
COPPER OR COPPER ALLOY TUBING (TYPE K, L or M)	ASTM 75, ASTM B 88, ASTM B 251, ASTM B 306	
PVC (WHERE PERMITTED BY LOCAL CODES)	ASTM D2665, ASTM D2949	

WATER DISTRIBUTION PIPE		
MATERIAL	STANDARD	
COPPER OR COPPER ALLOY TUBING (TYPE L (ABOVE GROUND)	ASTM B 74, ASTM B 88, ASTM B 251, ASTM B 447	
TYPE K (UNDERGROUND)		

UNDERGROUND DRAINAGE PIPING		
MATERIAL	STANDARD	
SERVICE WEIGHT CAST IRON PIPE HUB & SPIGOT W/ GASKET JOINTS PVC (WHERE PERMITTED BY LOCAL CODES)	ASTM A74, CISP 301, ASTM A 888	
	ASTM D2665, ASTM D2949	



REVISIONS			DRAWN BY MPN
NO.	DATE	REMARKS	
			DRAWN BY
			DRAWN BY
			CHECKED BY PEL

PORTABLE CLASSROOM LAYOUT
DUQUOIN HIGH SCHOOL
DUQUOIN C.U.S.D. #300
DUQUOIN, IL

PLUMBING PLAN

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