

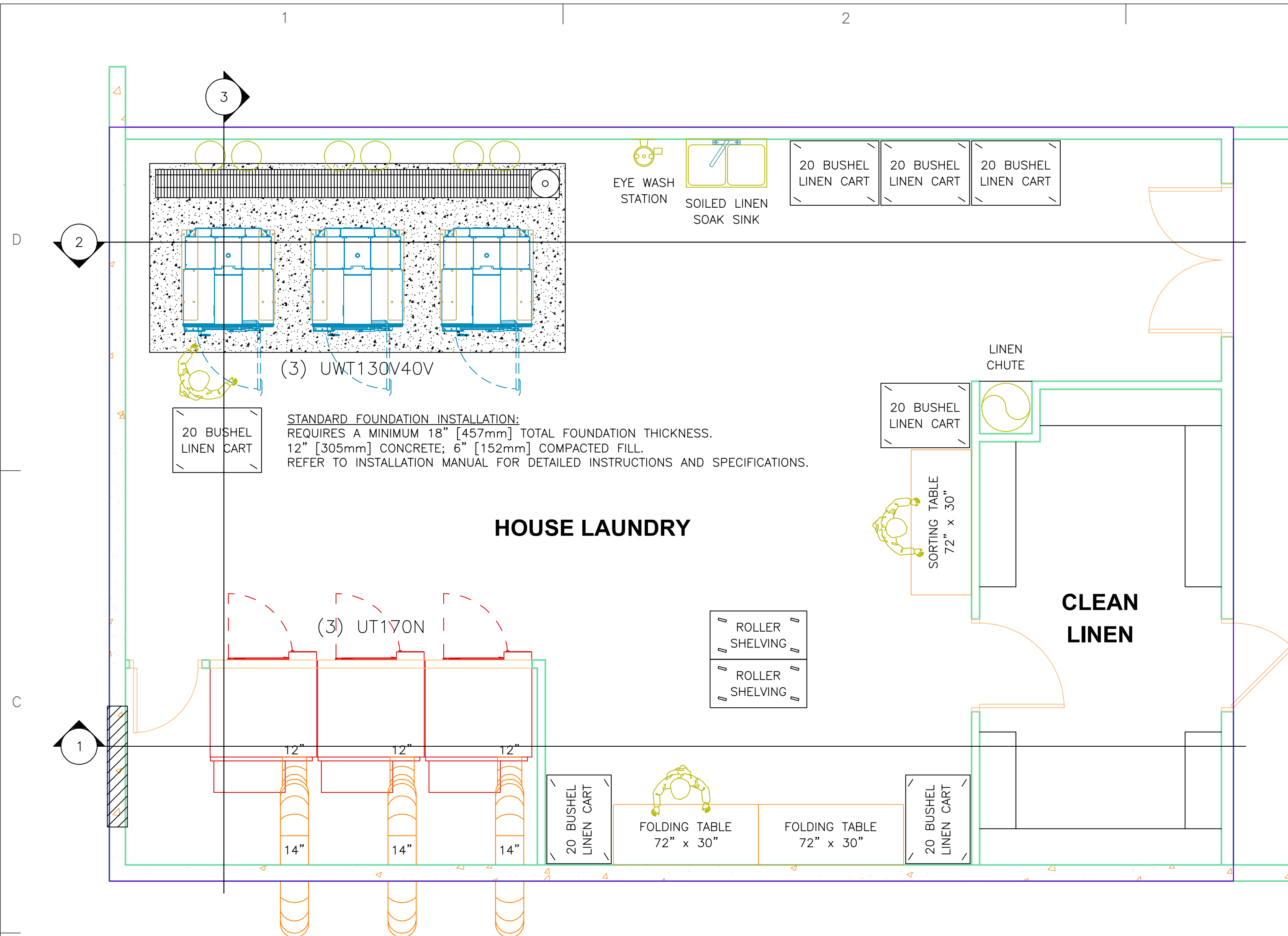
**1 DRYER BANK**  
UT170N BACK VIEWS

**2 WASHER BANK**  
UWT130V40V BACK VIEWS



PROJECT:	200 ROOM HOTEL (SELECT SERVICE)
PROJECT NUMBER:	LDR-####
AREA:	1360
EQUIPMENT DISTRIBUTOR:	Alliance Laundry 1 Shepard Street Ripon, WI, 54971
DRAWN BY:	KRP
TITLE OF SHEET:	EQUIPMENT ELEVATIONS
SHEET NUMBER:	SHEET 2 OF 4
DATE:	11-Aug-22

NOT FOR CONSTRUCTION PURPOSES. Equipment specifications are subject to change without notice. Please see equipment installation manuals for updated equipment installation requirements.



**STANDARD FOUNDATION INSTALLATION:**  
REQUIRES A MINIMUM 18" [457mm] TOTAL FOUNDATION THICKNESS.  
12" [305mm] CONCRETE; 6" [152mm] COMPACTED FILL.  
REFER TO INSTALLATION MANUAL FOR DETAILED INSTRUCTIONS AND SPECIFICATIONS.

**HOUSE LAUNDRY**

**CLEAN LINEN**

**DYNAMIC LOAD SPECIFICATIONS**

MODEL	STATIC LOAD, LBS/SF	DYNAMIC LOAD, LBS/SF	MAXIMUM DYNAMIC LOAD, LBS/F	DYNAMIC LOAD FREQUENCY Hz
UWT130V40V	178	469	15000	11.8

IMPORTANT: THOROUGHNESS OF DETAIL MUST BE STRESSED WITH ALL FOUNDATION WORK TO ENSURE A STABLE UNIT INSTALLATION, ELIMINATING POSSIBILITIES OF EXCESSIVE VIBRATION DURING EXTRACT. REFER TO THE MANUFACTURER'S INSTALLATION MANUAL FOR MORE DETAILS.

**DRAIN OUTLET SIZE**

MODEL	MACHINE DRAIN OUTLET	ESTIMATED DRAIN LINE FOR EACH BULKHEAD
UWT130V40V	2 x 3"	TROUGH DRAIN

IMPORTANT: MACHINE MUST BE INSTALLED IN ACCORDANCE WITH LOCAL CODES AND ORDINANCES.

IMPORTANT: THE ESTIMATED DRAIN LINE FOR EACH BULKHEAD IS BASED ON THE DRAIN FLOW CAPACITY OF EACH MACHINE, AND ONLY TAKES INTO ACCOUNT THE LAUNDRY EQUIPMENT REQUIREMENTS. WHEN CONDUCTING FINAL SIZING OF THE OUTGOING SEWER LINE, A PROFESSIONAL SHOULD BE CONSULTED AS FIGURES MAY VARY BASED ON LOCAL CODE REGULATIONS, DISTANCE AND CONFIGURATION OF PLUMBING, AND OTHER SEWER REQUIREMENTS FROM NON-LAUNDRY FIXTURES.

**WATER INLET SUPPLY**

MODEL	COLD WATER		HOT WATER		AVERAGE HOT WATER USAGE IN GALLONS/CYCLE	MAXIMUM VALVE FLOW GALLONS/MINUTE	REQUIRED LINE SIZE TO SUPPLY MACHINE		ESTIMATED WATER LINE SUPPLY SIZE	
	CONNECTION SIZE	OPTIMUM PRESSURE MIN. MAX.	CONNECTION SIZE	OPTIMUM PRESSURE MIN. MAX.			COLD	HOT	COLD	HOT
UWT130V40V	1	30lbs 85lbs	1	30lbs 85lbs	90	38.0	38.0	1"	1"	2 1/2" 2 1/2"

NOTE: THE AVERAGE HOT WATER PER CYCLE FIGURE IS PER MACHINE, AND WAS CALCULATED BASED ON 60 PSI OPERATING PRESSURE. ALL HOT WATER USAGE FIGURES ARE ESTIMATED, ACTUAL CONSUMPTION FIGURES WILL VARY DEPENDING ON LOCAL WATER PRESSURES, EQUIPMENT CONDITION, NUMBER OF CYCLES, CYCLE TIMES SELECTED, LOAD SIZES AND THE TYPE OF MATERIALS PROCESSED.

IMPORTANT: THE ESTIMATED WATER LINE SUPPLY SIZE IS BASED ON OPTIMUM WATER PRESSURE, AND ONLY TAKES INTO ACCOUNT THE LAUNDRY EQUIPMENT REQUIREMENTS. WHEN CONDUCTING FINAL SIZING OF THE INCOMING WATER LINE, A PROFESSIONAL SHOULD BE CONSULTED AS FIGURES MAY VARY BASED ON WATER PRESSURE AVAILABILITY, PLUMBING REGULATION REQUIREMENTS, DISTANCE AND CONFIGURATION OF PIPING, AND OTHER WATER REQUIREMENTS FOR NON-LAUNDRY FIXTURES.

**EXHAUST/VENT OUTLET SIZE**

MODEL	SIZE	AIR FLOW	MIN. CROSS SECT. AREA ALL MACHINES
UT170N	12"	2150 cfm	3x141 sq in

PROVIDE A MINIMUM 15.3 SQ FT OF MAKE-UP AIR OPENING FOR ALL DRYERS.

NOTE: THE MAKE-UP AIR IS SIZED BASED ON A LOUVERED INSTALLATION. AN ADDITIONAL 40% HAS BEEN ADDED DUE TO POSSIBLE AIR FLOW RESTRICTIONS.

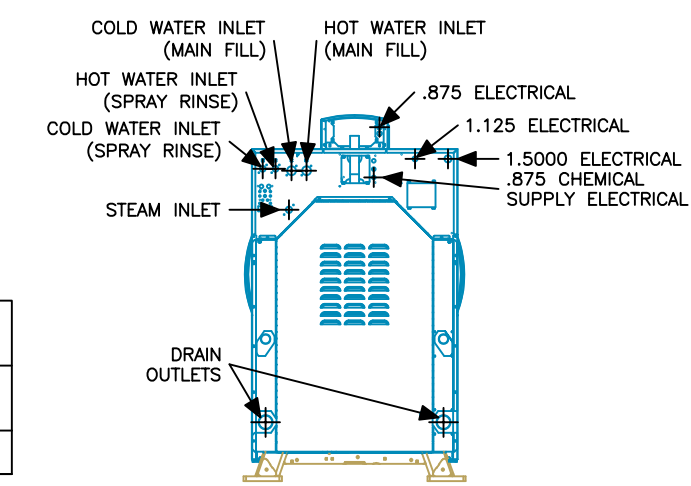
NOTE: THIS FIGURE IS CALCULATED BASED ONLY ON THE DRYERS. OTHER GRAVITY VENTED APPLIANCES PRESENT WILL REQUIRE THE MAKE-UP AIR OPENING(S) TO BE INCREASED SUFFICIENTLY TO PREVENT DOWNDRAFTS IN ANY OF THE VENTS.

**GAS INLET SIZE**

MODEL	OPERATING PRESSURE (WCS)	GAS TYPE	MAX INPUT BTU/HOUR	CONNECTION SIZE	ESTIMATED GAS SUPPLY LINE
UT170N	7"±1.5"	NATURAL	395000	1"	2 1/2"
TOTAL			1185000		

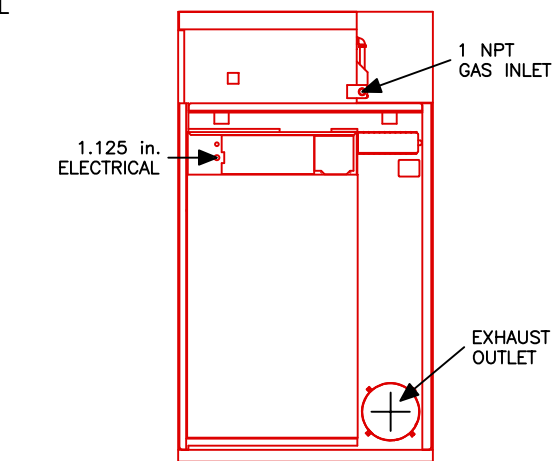
NOTE: IT IS IMPORTANT THAT EQUAL PRESSURE BE MAINTAINED AT ALL TUMBLE DRYER GAS CONNECTIONS. THIS CAN BE DONE BY INSTALLING A 1" (25.4mm) PIPE GAS LOOP TO MAINTAIN EQUAL PRESSURE AT ALL GAS CONNECTIONS.

IMPORTANT: THE ESTIMATED GAS SUPPLY LINE SIZE IS BASED ON A 0.5 PSI (0.04 bar) SUPPLY SYSTEM, AND 60' (18m) LENGTH OF PIPE, AND ONLY TAKES INTO ACCOUNT THE LAUNDRY EQUIPMENT REQUIREMENTS. WHEN CONDUCTING FINAL SIZING OF THE INCOMING GAS LINE, A PROFESSIONAL SHOULD BE CONSULTED AS FIGURES MAY VARY BASED ON SUPPLY SYSTEM SIZE, LOCAL CODE REGULATIONS, DISTANCE AND CONFIGURATION OF PIPING, AND OTHER GAS REQUIREMENTS FROM NON-LAUNDRY FIXTURES.



**CONNECTION DETAIL**

(130 lb. POCKET HARDMOUNT WASHER-EXTRACTOR)  
UNILIN TOUCH CONTROL



**CONNECTION DETAIL**

(170 lb. TUMBLE DRYER (GAS HEATED))

**ELECTRICAL REQUIREMENTS**

MODEL	VOLTAGE/CYCLE/PHASE	FULL LOAD AMP DRAW	CIRCUIT BREAKER	WIRE SIZE AWG [mm]
UWT130V40V	200-240/50-60/3ø	21A	30A	10 [6]
UT170N	200-240/50-60/3ø	11A	15A	14 [2.5]
TOTALS		96.0A		

NOTE: ELECTRICAL RATINGS ARE SUBJECT TO CHANGE WITHOUT NOTICE. REFER TO SERIAL PLATE FOR ELECTRICAL RATINGS INFORMATION SPECIFIC TO YOUR MACHINE.

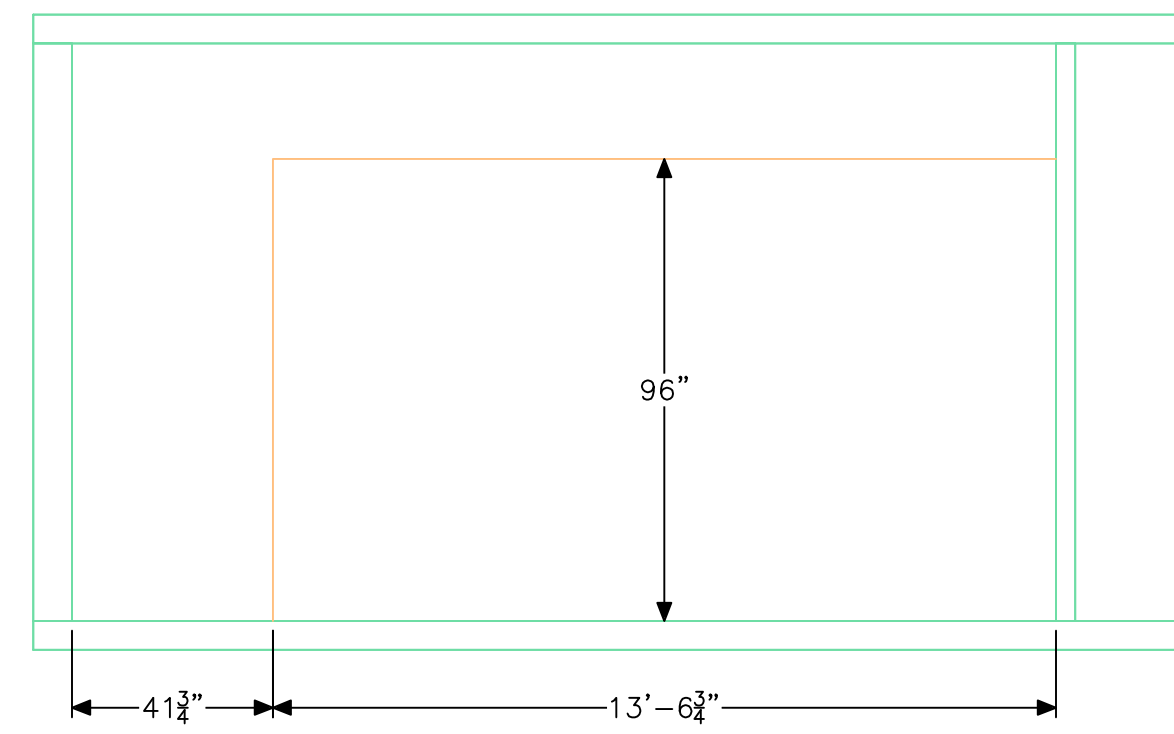
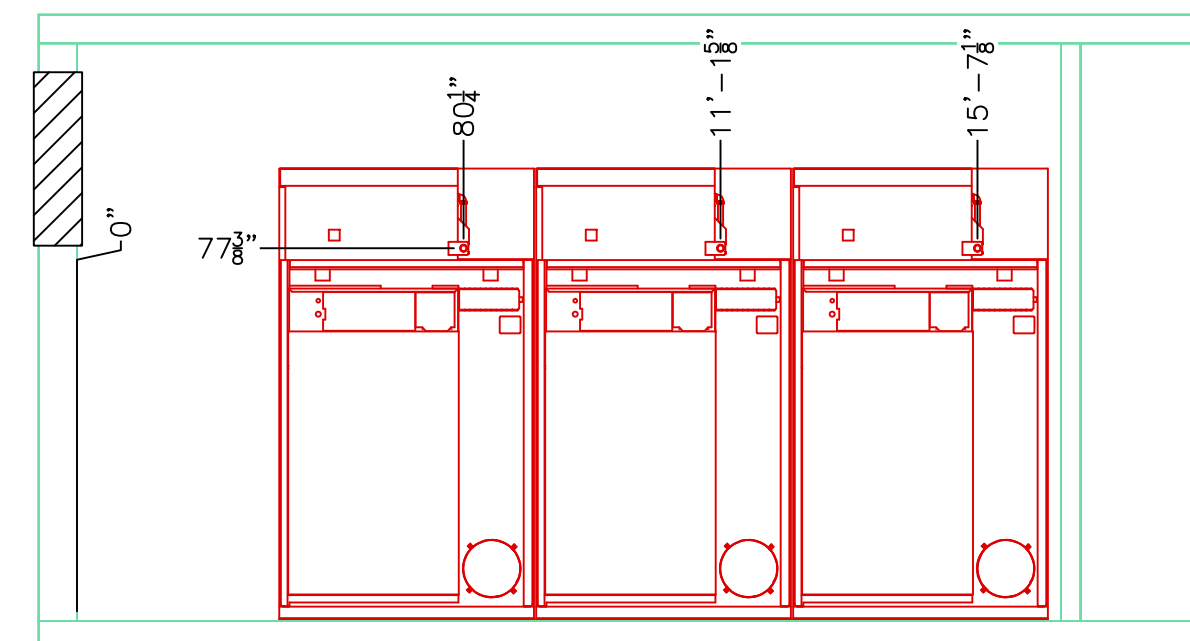
NOTE: ELECTRIC HEATED STACK DRYER AND STACK 30 TUMBLE DRYER FULL LOAD AMPS AND CIRCUIT BREAKERS ARE SHOWN PER POCKET. PLEASE CONSULT INSTALLATION MANUAL FOR SPECIFICATIONS.

IMPORTANT: FOR PERSONAL SAFETY AND PROPER OPERATION, THE MACHINE MUST BE GROUNDED IN ACCORDANCE WITH STATE AND LOCAL CODES.

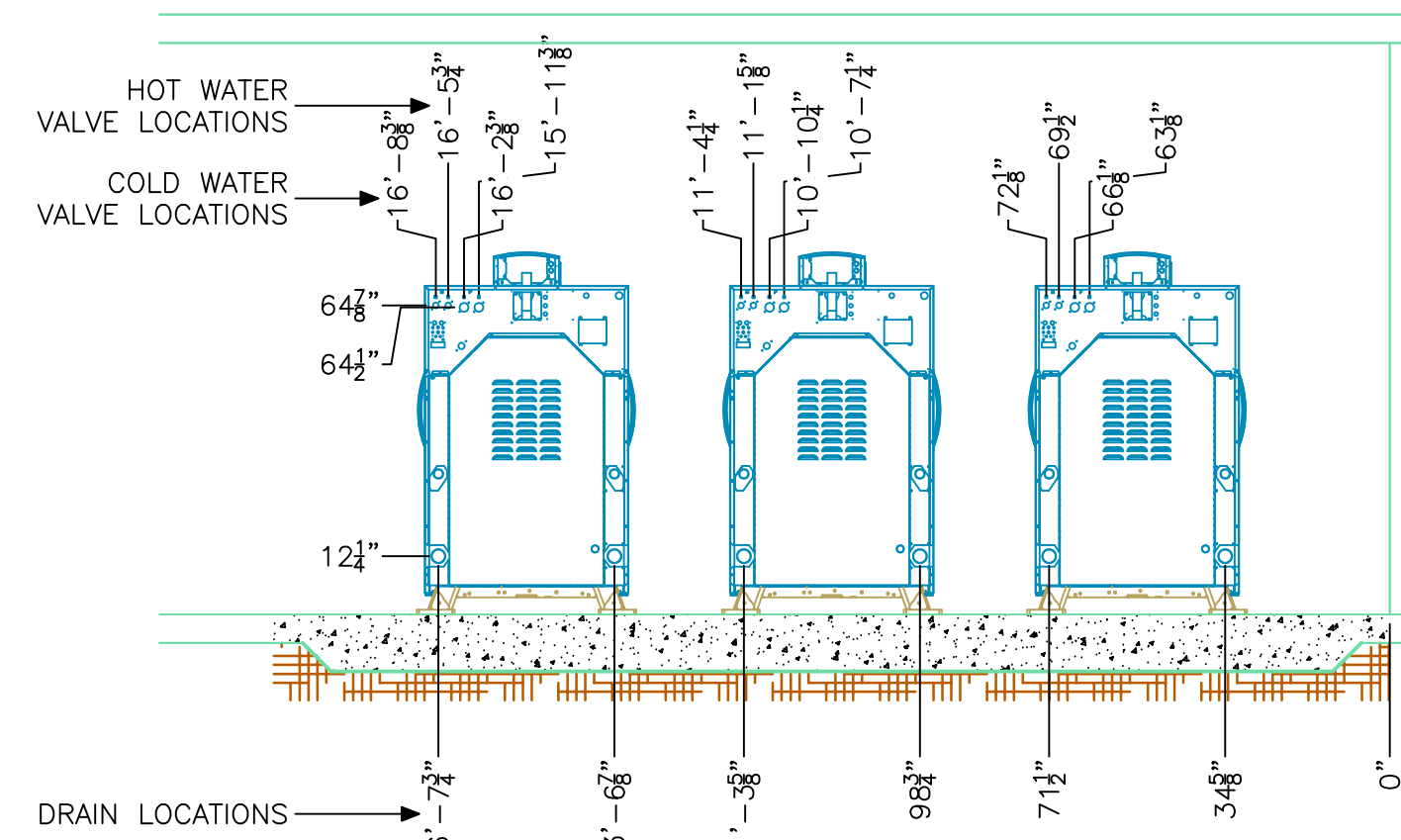
NOTE: CONNECTIONS MUST BE MADE BY A QUALIFIED ELECTRICIAN. REFER TO THE MANUFACTURER'S INSTALLATION MANUAL FOR MORE DETAILS AND ELECTRICAL REQUIREMENTS.

NOTE: IT IS IMPORTANT THAT EQUAL PRESSURE BE MAINTAINED AT ALL TUMBLE DRYER GAS CONNECTIONS. THIS CAN BE DONE BY INSTALLING A 1 INCH PIPE GAS LOOP TO MAINTAIN EQUAL PRESSURE AT ALL GAS LOCATIONS.

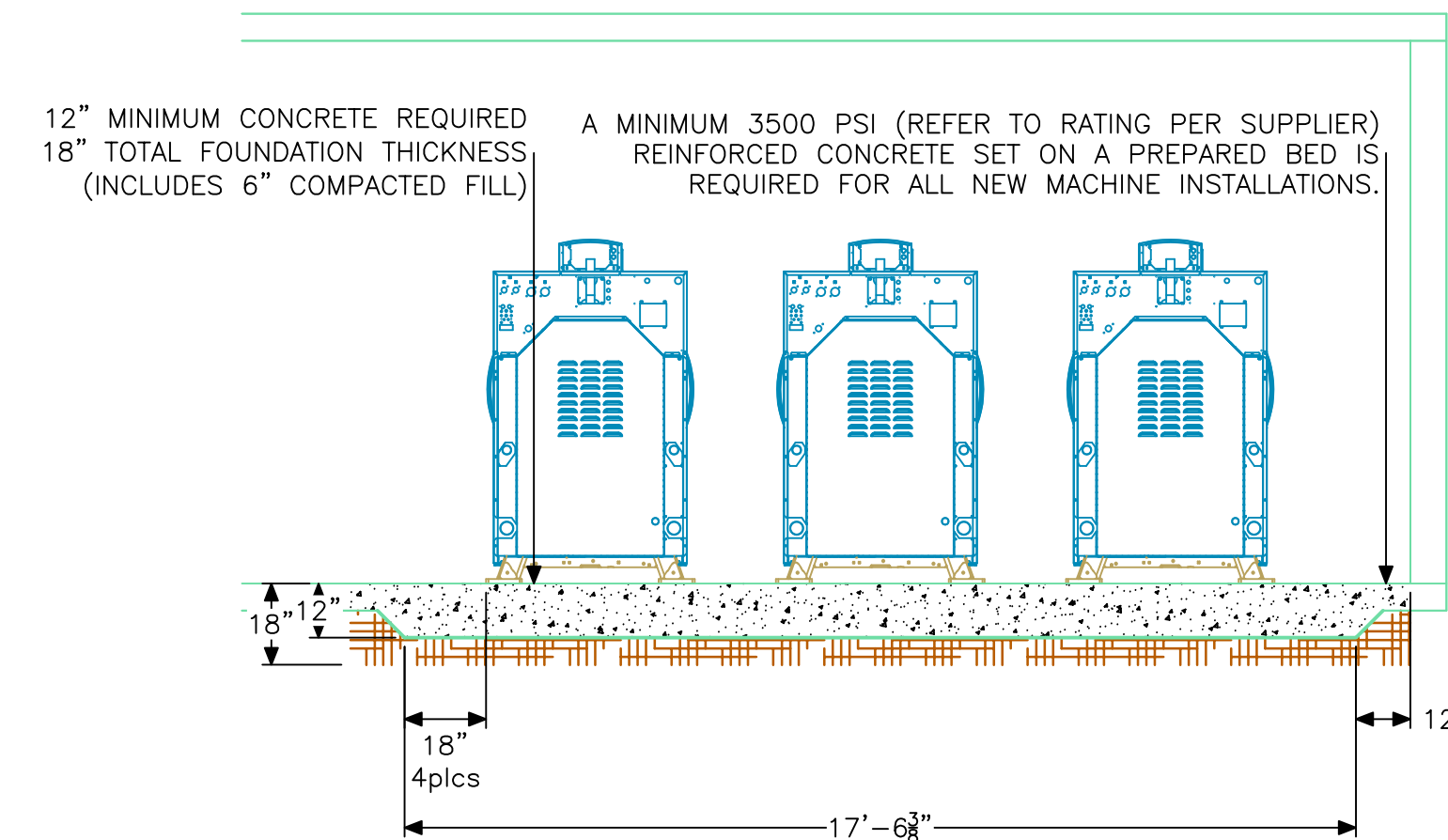
BEFORE INSTALLATION, CHECK THAT THE LOCAL DISTRIBUTION CONDITIONS NATURE OF GAS AND PRESSURE, AND THE ADJUSTMENT OF THE APPLIANCE ARE COMPATIBLE.



IMPORTANT: MACHINE MUST BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.



NOTE: DO NOT MOUNT ON WOODEN FLOORS, TILE FLOORS, ELEVATED FLOOR LEVELS, STACKED MULTIPLE BASE FRAMES, OR OVER BASEMENT OR CRAWL SPACES BECAUSE OF THE HIGH EXTRACT SPEED AND THE G-FORCES EXERTED.

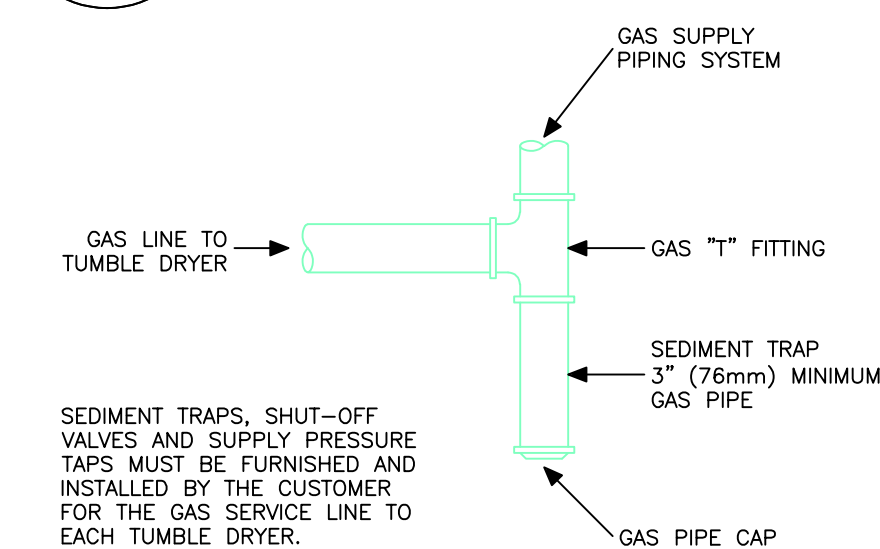


**1A DRYER BANK**  
NATURAL GAS VALVE LOCATIONS

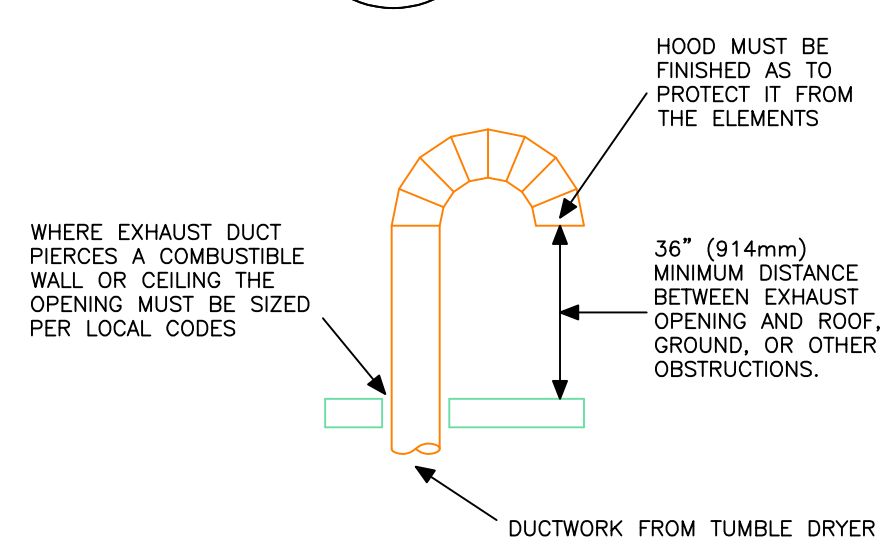
**1B DRYER BANK**  
TUMBLE DRYER OPENING MEASUREMENTS

**2A WASHER BANK**  
WATER/DRAIN LOCATIONS

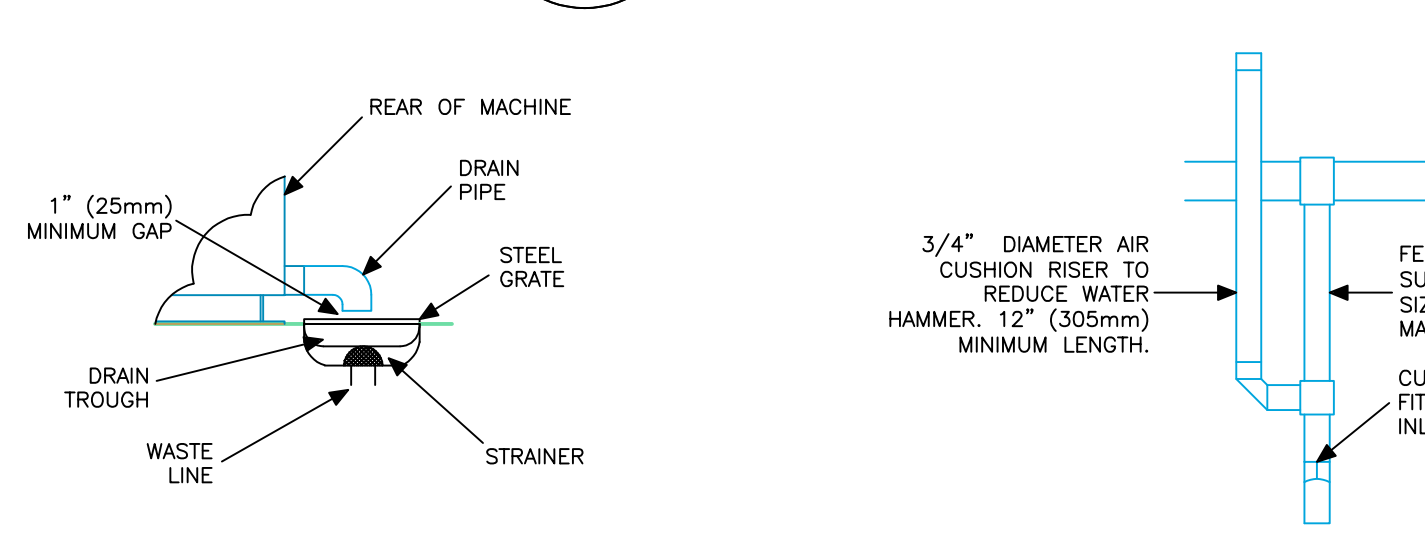
**2B WASHER BANK**  
FOUNDATION SPECIFICATIONS



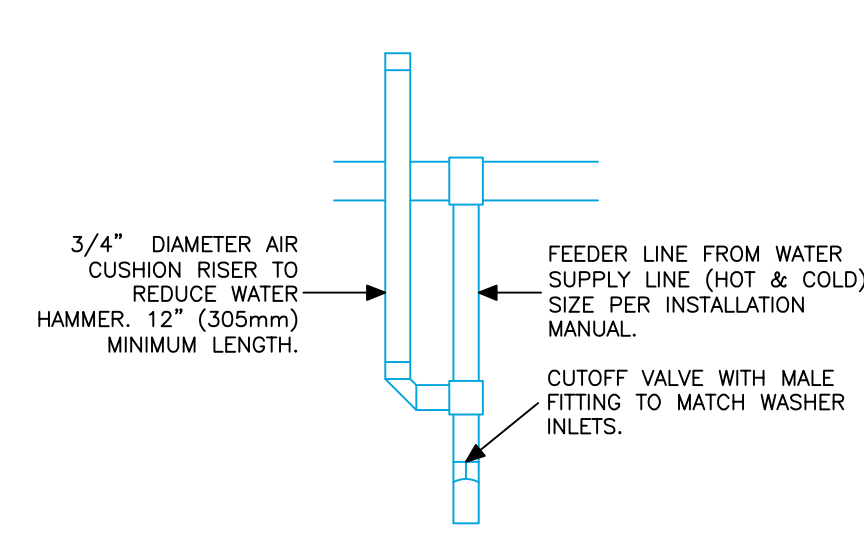
**GAS SERVICE LINE**  
(DRAWING NOT TO SCALE)



**EXHAUST HOOD DETAIL**  
(DRAWING NOT TO SCALE)



**DRAIN TROUGH SYSTEM**  
(DRAWING NOT TO SCALE)



**WATER BRANCH LINE**  
(DRAWING NOT TO SCALE)



PROJECT:  
**200 ROOM HOTEL**  
(SELECT SERVICE)

PROJECT NUMBER:  
LDR-####

AREA:  
1360

EQUIPMENT DISTRIBUTOR:  
**Alliance Laundry**  
1 Shepard Street  
Ripon, WI, 54971

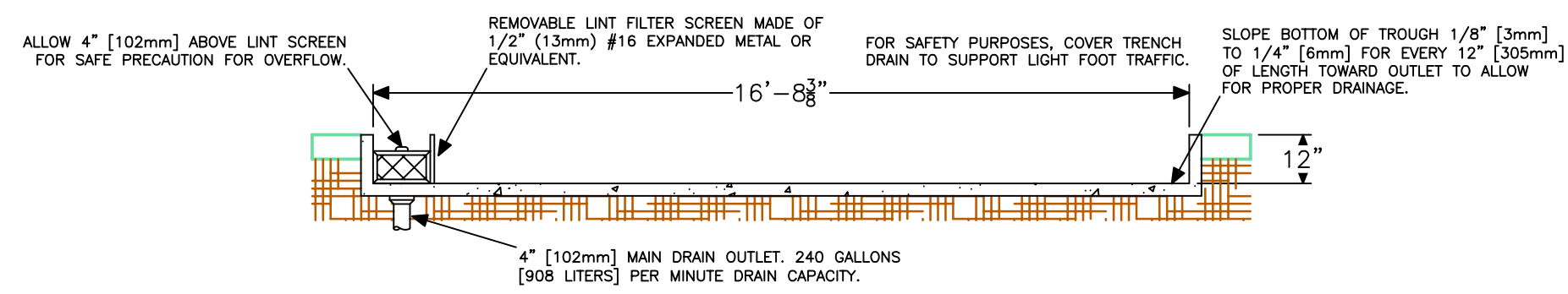
DRAWN BY:  
KRP

TITLE OF SHEET:  
**UTILITIES**  
SPECIFICATIONS

SHEET NUMBER:  
SHEET 3 OF 4

DATE:  
11-Aug-22

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**TD1 TROUGH DRAIN 1**  
WASHER BANKS 1 & 2

**FOUNDATION REQUIREMENTS**

- A MINIMUM 3500 PSI (REFER TO RATING PER SUPPLIER) REINFORCED CONCRETE SET ON A PREPARED BED IS REQUIRED FOR ALL NEW MACHINE INSTALLATIONS.
- DO NOT MOUNT ON METAL BASE FRAMES, WOODEN FLOORS, TILE FLOORS, ELEVATED FLOOR LEVELS, OR OVER BASEMENTS OR CRAWL SPACES BECAUSE OF THE HIGH EXTRACT SPEED AND THE G-FORCES EXERTED. FOR 80 POUND MODELS AND LARGER, DO NOT MOUNT ON METAL BASE FRAMERS.
- FOR NEW FOUNDATIONS A MOUNTING BOLT TEMPLATE OR AN ELEVATED METAL BASE FRAME IS AVAILABLE AT EXTRA COST. FOR ALL INSTALLATIONS A CONCRETE HARDWARE KIT IS AVAILABLE AT EXTRA COST.
- THE MACHINE MUST BE ANCHORED TO A SMOOTH LEVEL SURFACE SO THAT THE ENTIRE BASE OF THE MACHINE IS SUPPORTED AND RESTS ON THE MOUNTING SURFACE.
- IMPORTANT: DO NOT PERMANENTLY SUPPORT THE MACHINE ON ONLY FOUR POINTS WITH SPACERS. GROUTING IS REQUIRED AND SPACERS MUST BE REMOVED.
- DO NOT ISOLATE THE PAD. THIS TYPE OF INSTALLATION IS NOT RECOMMENDED. INSTALLER MUST CONSULT A STRUCTURAL ENGINEER FOR CONCRETE SPECIFICATIONS AND REQUIREMENTS FOR INSTALLATIONS THAT WILL NOT BE TIED INTO ADJACENT FOUNDATIONS.
- THOROUGHNESS OF DETAIL MUST BE STRESSED WITH ALL FOUNDATION WORK TO ENSURE A STABLE UNIT INSTALLATION, ELIMINATING POSSIBILITIES OF EXCESSIVE VIBRATION DURING EXTRACT.
- REFER TO INSTALLATION MANUAL FOR COMPLETE INSTALLATION PROCEDURES AND FOUNDATION REQUIREMENTS.

**CONCRETE PAD INSTALLATION**

- A CONCRETE PAD MAY BE CONSTRUCTED TO ELEVATE A MACHINE. CARE MUST BE EXERCISED IN THE DESIGN OF THE PAD DUE TO THE FORCE EXERTED BY THE MACHINE DURING EXTRACT. THIS CONCRETE PAD, RECOMMENDED NOT TO EXCEED 8" (203mm) ABOVE EXISTING FLOOR, MUST BE PLACED, REINFORCED WITH REBAR AND TIED TO THE EXISTING FLOOR. REFER TO INSTALLATION MANUAL FOR MULTIPLE MACHINE INSTALLATIONS.
- IMPORTANT: DO NOT INSTALL A PAD ON TOP OF THE EXISTING FLOOR. THE FOUNDATION AND PAD MUST BE CONSTRUCTED AND TIED TOGETHER AS ONE PIECE.
- IF THE EXISTING FLOOR IS NOT REINFORCED CONCRETE AT LEAST OF MINIMUM THICKNESS (DEPENDING ON MODEL), AN ELEVATED PAD IS DESIRED OR MULTIPLE MACHINES ARE TO BE INSTALLED, REFER TO THE INSTALLATION MANUAL FOR THE NECESSARY STEPS THAT MUST BE PERFORMED.

**DRAIN CONNECTION NOTES**

- IMPORTANT: MACHINES MUST BE INSTALLED IN ACCORDANCE WITH ALL LOCAL CODES AND ORDINANCES.
- ALL DRAIN SYSTEMS MUST BE VENTED TO PREVENT AIR LOCK AND TO PREVENT SIPHONING.
- USE THE SUPPLIED BLACK RUBBER ADAPTER AND CLAMPS TO TRANSITION FROM THE MACHINE DRAIN OUTLET TO THE 2" (51mm) SCHEDULE 40 PVC PLUMBING (20 AND 30 MODELS) AND THE 3" (76mm) SCHEDULE 40 PVC PLUMBING (40-100 MODELS).
- IF PROPER DRAIN SIZE IS NOT AVAILABLE OR PRACTICAL, A SURGE TANK IS REQUIRED. A SURGE TANK ALONG WITH A SUMP PUMP SHOULD BE USED WHEN GRAVITY DRAINAGE IS NOT POSSIBLE.
- INCREASING THE DRAIN HOSE LENGTH, INSTALLING ELBOWS, OR CAUSING BENDS WILL DECREASE DRAIN FLOW RATE AND INCREASE DRAIN TIMES, IMPAIRING MACHINE PERFORMANCE.
- REFER TO INSTALLATION MANUAL FOR COMPLETE INSTALLATION PROCEDURES AND DRAIN REQUIREMENTS.

**H.V.A.C. NOTE**

A LICENSED HEATING, VENTING AND AIR CONDITIONING (HVAC) FIRM SHOULD BE CONSULTED TO ENSURE A PROPER VENTING SYSTEMS IS INSTALLED. IMPROPERLY SIZED OR INSTALLED EXHAUST DUCTWORK CAN CREATE EXCESSIVE BACK PRESSURE WHICH RESULTS IN SLOW DRYING, INCREASE USE OF ENERGY, OVERHEATING OF DRYER AND CAN CREATE A POTENTIAL FIRE HAZARD.

**MATERIALS REQUIRED (GAS)**

(OBTAIN MATERIALS REQUIRED LOCALLY)

- FUSED DISCONNECT SWITCH OR CIRCUIT BREAKER ON 1 PHASE MODELS. CIRCUIT BREAKER ON 3 PHASE MODELS.
- ONE GAS SHUT-OFF VALVE FOR GAS SERVICE LINE TO EACH TUMBLE DRYER.

**WATER CONNECTION NOTES**

- THE MAXIMUM WATER INLET TEMPERATURE FOR VENDED MODELS IS 125°F (51°C) AND THE RECOMMENDED MAXIMUM WATER INLET TEMPERATURE FOR ON-PREMISES MODELS IS 150°F (66°C) (STANDARD MODELS) OR 140°F (60°C) (WRAS APPROVED MODELS).
- CONNECTIONS SHOULD BE SUPPLIED BY A HOT AND A COLD WATER LINES OF AT LEAST THE SIZES SHOWN IN THE INSTALLATION MANUAL. INSTALLATION OF ADDITIONAL MACHINES WILL REQUIRE PROPORTIONATELY LARGER WATER LINES.
- IF ADDITIONAL HOSE LENGTHS ARE NEEDED OR USING HOSES OTHER THAN THOSE SUPPLIED BY MANUFACTURER, FLEXIBLE HOSES WITH SCREEN FILTERS ARE REQUIRED.
- SUITABLE AIR CUSHIONS (RISERS) SHOULD BE INSTALLED IN SUPPLY LINES TO PREVENT "HAMMERING".
- ALLIANCE LAUNDRY SYSTEMS, LLC RANGES OF FRONT LOADING COMMERCIAL CLOTHES WASHING MACHINES HAVE SOLENOID VALVES AT THE INLETS. THE WATER SUPPLY TO THE WASHING MACHINES IS SUPPLIED WITH AN AIR GAP BETWEEN THE SOAP TRAY AND THE DRUM. MINIMUM AND MAXIMUM WORKING PRESSURE 1.4 bar AND 8.3 bar. THE MACHINES ARE SUPPLIED WITH APPROVED INLET HOSES WITH A MAXIMUM INLET DIMENSION OF 0.50" (15mm) (ID).
- NOTE: THE MACHINE HAS A FLUID CATEGORY 5 BACKFLOW PREVENTION DEVICE BUILT IN BETWEEN THE SOAP TRAY AND DRUM.
- NOTE: NO MORE THAN TWO WATER CONNECTION HOSES SHOULD BE USED ON WRAS-APPROVED MODELS.
- REFER TO INSTALLATION MANUAL FOR COMPLETE INSTALLATION PROCEDURES AND WATER CONNECTION REQUIREMENTS.

**ELECTRICAL NOTES**

- IMPORTANT: ELECTRICAL RATINGS ARE SUBJECT TO CHANGE. REFER TO THE SERIAL DECAL FOR ELECTRICAL RATINGS INFORMATION SPECIFIC TO YOUR MACHINES.
- ELECTRICAL CONNECTIONS ARE MADE AT THE REAR OF THE MACHINE. THE MACHINE MUST BE CONNECTED TO THE PROPER ELECTRICAL SUPPLY SHOWN ON THE IDENTIFICATION PLATE ATTACHED TO THE REAR OF THE MACHINE, USING COPPER CONDUCTORS ONLY.
- MACHINES ARE EQUIPPED WITH AC INVERTER DRIVES REQUIRING A CLEAN POWER SUPPLY, FREE FROM VOLTAGE SPIKES AND SURGES. USE VOLTAGE MONITOR TO CHECK INCOMING POWER.
- SINGLE-PHASE MACHINES REQUIRE A SINGLE-PHASE INVERSE-TIME CIRCUIT BREAKER. THREE-PHASE MACHINES AND V-SPEED MACHINES REQUIRE A SEPARATE, THREE-PHASE INVERSE-TIME CIRCUIT BREAKER TO PREVENT DAMAGE TO THE MOTOR BY DISCONNECTING ALL LEGS IF ONE SHOULD BE LOST ACCIDENTALLY. REFER TO INSTALLATION MANUAL FOR MODEL SPECIFIC CIRCUIT BREAKER REQUIREMENTS.
- IMPORTANT: ALL QUICK DISCONNECTS SHOULD COMPLY WITH THE SPECIFICATIONS. DO NOT USE FUSES INSTEAD OF CIRCUIT BREAKERS.
- IMPORTANT: CONNECTION MUST BE MADE BY A QUALIFIED ELECTRICIAN USING WIRING DIAGRAM PROVIDED WITH MACHINE, OR ACCORDING TO ACCEPTED EUROPEAN UNION STANDARDS.
- CONNECT MACHINE TO AN INDIVIDUAL BRANCH CIRCUIT NOT SHARED WITH LIGHTING OR OTHER EQUIPMENT.
- FOR PERSONAL SAFETY AND PROPER OPERATION, THE MACHINE MUST BE GROUNDED IN ACCORDANCE WITH STATE AND LOCAL CODES. IF SUCH CODES ARE NOT AVAILABLE, GROUNDING MUST CONFORM TO THE NATIONAL ELECTRICAL CODE, ARTICLE 250 (CURRENT EDITION). THE GROUND CONNECTION MUST BE MADE TO A PROVEN EARTH GROUND, NOT TO CONDUIT OR WATER PIPES.
- ELECTRICALLY HEATED MACHINES DO NOT REQUIRE DUAL POWER SOURCES. DO NOT CONNECT CUSTOMER POWER OR CUSTOMER LOAD TO THE INTERNAL LOAD DISTRIBUTION TERMINAL BLOCK. REFER TO THE MACHINE ELECTRICAL SCHEMATIC FOR DETAILS.

**GAS NOTES**

- OBTAIN SPECIFIC GAS SERVICE PIPE SIZE FROM GAS SUPPLIER. REFER TO INSTALLATION/MAINTENANCE MANUAL FOR GENERAL PIPE SIZE.
- SEDIMENT TRAPS, SHUT-OFF VALVES, AND SUPPLY PRESSURE TAPS MUST BE FURNISHED BY THE CUSTOMER FOR THE GAS SERVICE LINE TO EACH TUMBLE DRYER.
- IT IS IMPORTANT THAT EQUAL PRESSURE BE MAINTAINED AT ALL TUMBLE DRYER GAS CONNECTIONS. THIS CAN BE DONE BY INSTALLING A 1" (25.4mm) PIPE GAS LOOP TO MAINTAIN EQUAL PRESSURE AT ALL GAS CONNECTIONS.
- AN IN-LINE PRESSURE REGULATOR MAY BE REQUIRED IF THE LINE PRESSURE EXCEEDS 10.5 W.C.I. (26.1mbar, 2.61kPa) WITH ALL GAS APPLIANCES RUNNING.
- FOR PROPER OPERATION AT ALTITUDES ABOVE 2000' (610m), THE GAS BURNER ORIFICE SIZE MUST BE REDUCED TO ENSURE COMPLETE COMBUSTION.
- REFER TO INSTALLATION/MAINTENANCE MANUAL FOR COMPLETE INSTALLATION PROCEDURES AND GAS REQUIREMENT INFORMATION.

**EXHAUST NOTES**

- WHENEVER POSSIBLE, INSTALL TUMBLE DRYERS ALONG AN OUTSIDE WALL WHERE DUCT LENGTH CAN BE KEPT TO A MINIMUM, AND MAKE-UP AIR CAN BE EASILY ACCESSED. CONSTRUCTION MUST NOT BLOCK THE AIRFLOW AT THE REAR OF THE TUMBLE DRYER. DOING SO WOULD PREVENT ADEQUATE AIR SUPPLY TO THE TUMBLE DRYER COMBUSTION CHAMBER.
- MAKE-UP AIR OPENINGS IN ROOMS CONTAINING TUMBLE DRYERS AND/OR GAS FIRED HOT WATER HEATERS OR OTHER GRAVITY VENTED APPLIANCES MUST BE INCREASED SUFFICIENTLY TO PREVENT DOWNDRAFTS IN ANY VENTS WHEN ALL TUMBLE DRYERS ARE IN OPERATION.
- DO NOT LOCATE GRAVITY VENTED APPLIANCES BETWEEN TUMBLE DRYERS AND MAKE-UP AIR OPENINGS. IF IT IS NECESSARY TO DUCT MAKE-UP AIR TO TUMBLE DRYERS, INCREASE AREA OF DUCT WORK BY 25% TO COMPENSATE FOR RESTRICTIONS IN AIR MOVEMENT.
- FOR MAXIMUM EFFICIENCY AND MINIMUM LINT ACCUMULATION, TUMBLE DRYER AIR MUST BE EXHAUSTED TO THE OUTDOORS BY THE SHORTEST POSSIBLE ROUTE.
- PROPER SIZED EXHAUST DUCTS ARE ESSENTIAL FOR PROPER OPERATION. ALL ELBOWS SHOULD BE SWEEP TYPE. EXHAUST DUCTS MUST BE ASSEMBLED SO THE INTERIOR SURFACES ARE SMOOTH, SO THE JOINTS DO NOT PERMIT THE ACCUMULATION OF LINT.
- THE MAXIMUM ALLOWABLE LENGTH VENTING IS 14' (4.3m) AND TWO 90° ELBOWS OR EQUIVALENT. IF THE EQUIVALENT LENGTH OF DUCT WORK REQUIRED FOR AN INSTALLATION EXCEEDS THE MAXIMUM ALLOWABLE LENGTH, THE DIAMETER OF A ROUND DUCT MUST BE INCREASE BY 10% FOR EACH ADDITIONAL 20' (6.1m). CROSS SECTION AREA OF A RECTANGULAR DUCT MUST BE INCREASED BY 20% FOR EACH ADDITIONAL 20' (6.1m).

**DRYER ENCLOSURE NOTE**

- IT IS GENERALLY DESIRABLE TO ENCLOSE THE TUMBLE DRYERS TO SEGREGATE THE MAKE-UP AIR SUPPLY, ESPECIALLY IF THE LAUNDRY ROOM IS AIR CONDITIONED OR HAS SOME SORT OF ENVIRONMENTAL CONTROL. TUMBLE DRYER ENCLOSURES PROVIDE (2) SIGNIFICANT BENEFITS:
- THE TUMBLE DRYERS DO NOT USE CONDITIONED ROOM AIR FOR COMBUSTION MAKE-UP AIR. THIS MAKES OPERATING BOTH THE ENVIRONMENTAL SYSTEM AND THE TUMBLE DRYERS LESS EXPENSIVE BECAUSE AIR THAT IS COOLED TO 75°F (24°C) IS NOT TAKEN FROM THE ROOM AND REHEATED TO 160°-180°F (71-82°C).
  - HEAT EMISSIONS FROM THE TUMBLE DRYERS ARE REDUCED UP TO 80%. EACH EXPOSED FACE WILL EMIT 2% OF THE RATED BTU INPUT. IF A TUMBLE DRYER IS NOT ENCLOSED, THERE ARE FIVES FACES EXPOSED, SO THE HEAT EMITTED IS 5 x 0.02 x RATED BTU INPUT, OR 10%. IF ENCLOSED, ONLY ONE FACE IS EXPOSED.

**ELECTRICAL NOTES**

- ELECTRICAL CONNECTIONS MUST BE MADE BY A QUALIFIED ELECTRICIAN USING DATA ON A SERIAL PLATE, INSTALLATION MANUALS AND WIRING DIAGRAMS PROVIDED WITH MACHINE AND ACCORDING TO LOCAL CODES.
  - INSTALL A CIRCUIT BREAKER AS CLOSE TO THE TUMBLE DRYER AS POSSIBLE. IF MORE THAN ONE TUMBLE DRYER IS BEING INSTALLED, A CIRCUIT BREAKER MUST BE PROVIDED FOR EACH.
  - CONNECT MACHINE TO AN INDIVIDUAL BRANCH CIRCUIT NOT SHARED WITH LIGHTING OR OTHER EQUIPMENT.
  - FOR 3 PHASE MACHINES ONLY - DO NOT USE FUSES TO AVOID THE POSSIBILITY OF "SINGLE PHASING" AND CAUSING PREMATURE FAILURE OF THE MOTORS.
  - THE TUMBLE DRYER MUST BE GROUNDED. THE TUMBLE DRYER MUST BE CONNECTED TO A GROUNDED METAL, PERMANENT WIRING SYSTEM; OR AN EQUIPMENT GROUNDING CONDUCTOR MUST BE RUN WITH THE CIRCUIT CONDUCTORS AND CONNECTED TO APPROPRIATE GROUND LOCATION.
- FOR T30 AND T45 TUMBLE DRYERS ONLY:
- ALL GAS AND STEAM TUMBLE DRYERS REQUIRE A SINGLE SERVICE CONNECTION TO TB1 OF THE UPPER UNIT JUNCTION BOX ONLY. THE SERIAL PLATE REFLECTS CURRENT DRAW, BREAKER/FUSE SIZE AND CONDUCTOR AMPERAGE REQUIRED FOR THE ENTIRE MACHINE.
  - ALL ELECTRIC TUMBLE DRYERS REQUIRE SEPARATE SERVICE CONNECTIONS FOR UPPER AND LOWER UNIT. SERIAL PLATE RATINGS REFLECT CURRENT DRAW, BREAKER/FUSE SIZE AND CONDUCTOR AMPERAGE REQUIRED PER UNIT.



PROJECT:  
200 ROOM HOTEL  
(SELECT SERVICE)

PROJECT NUMBER:  
LDR-####

AREA:  
1360

EQUIPMENT DISTRIBUTOR:  
Alliance Laundry  
1 Shepard Street  
Ripon, WI, 54971

DRAWN BY:  
KRP

TITLE OF SHEET:  
TROUGH DRAIN  
DETAIL; NOTES

SHEET NUMBER:  
SHEET 4 OF 4

DATE:  
11-Aug-22

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