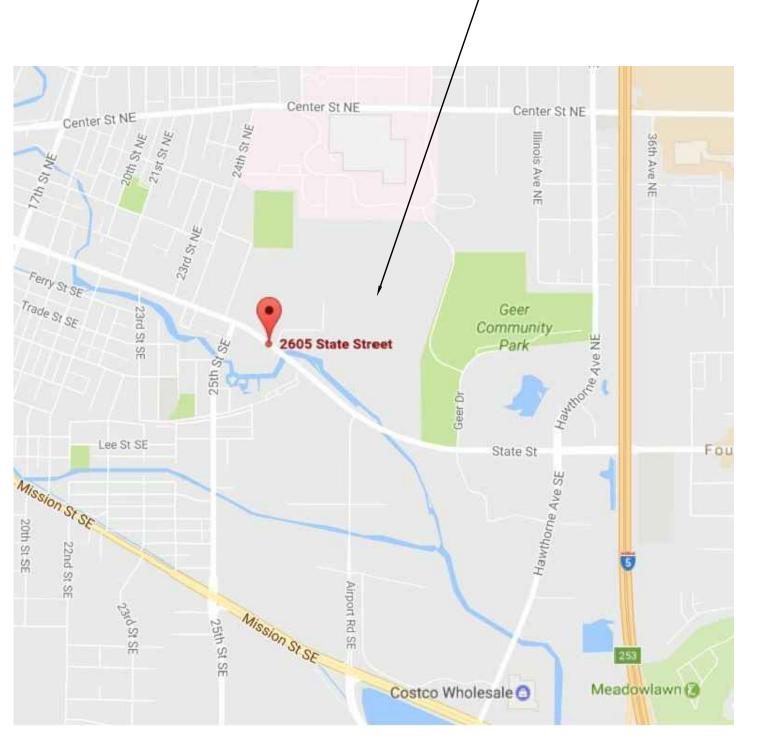
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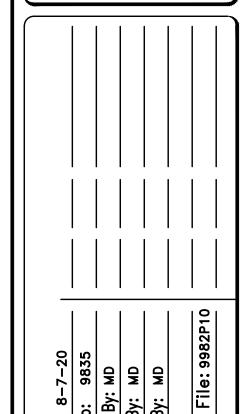
Oregon Department of Corrections 2605 State St, Salem, Oregon 97310 CELL BLOCK WATER PIPE UPGRADES CELL BLOCK D & E

Drawing Index:

P1.0	COVER SHEET
P1.1	SCOPE OF WORK & MATERIALS REQUIREMENTS
P1.2	SITE PLAN - OVERALL KEY PLAN
P2.0	CELL BLOCK 'D' AND 'E' TIER 1 AND TIER 2 DEMO PLANS
P2.1	CELL BLOCK 'D' AND 'E' TIER 3 AND TIER 4 DEMO PLANS
P2.2	CELL BLOCK 'D' AND 'E' TIER 5 DEMO PLAN
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P3.0	CELL BLOCK 'D' AND 'E' TIER 1 AND TIER 4 PLANS
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P4.0	CELL BLOCK 'D' AND 'E' PLUMBING SECTIONS
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P6.0	PIPE CHASE PHOTOS
P6.1	PIPE CHASE CONNECTION DETAILS
P6.2	EQUIPMENT CUT SHEETS.







OREGON STATE PENTENTIARY
CELL BLOCK WATER PIPE UPGRADES
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PROJECT SCOPE OF WORK:

BASE BID: D-BLOCK

- CONNECT DCW, DHW AND HOT WATER RECIRC TO EXISTING
 WATER SUPPLIES AS SHOWN ON SHEET P6.0 & P6.1
- ROUTE 4" DCW AND 3" DHW MAINS FROM POINT OF CONNECTION UP NORTH END OF PLUMBING CHASE TO 5TH FLOOR CEILINGS.
- ROUTE 8 DCM & DHW RISERS (4 PER SIDE) DOWN TO LOWEST FLOOR WITH VALVED AND CAPPED TEES AS SHOWN ON THE PLANS. ROUTE 3/4" HOT WATER RECIRC LINES OFF BOTTOM OF EACH RISER WITH 3/4" THERMOSTATIC ZONE VALVE AND I" HOT WATER RECIRC LINE BACK TO (E) HOT WATER RECIRC POC. SEE SHEET M6.2 FOR EQUIPMENT CUT SHEETS.
- BASE BID KEEPS EXISTING WATER SYSTEM FULLY
 OPERATIONAL.
- CONTRACTOR RESPONSIBLE FOR ALL REQUIRED BUILDING SUPPORTS/HANGARS FOR NEW WATER MAINS.

ALT BID #I: D-BLOCK

- CONNECT DCW AND DHW TO 400 LAVATORIES AND WATER CLOSETS AS SHOWN ON THE PLANS.
- PROVIDE INDIVIDUAL SHUT OFF VALVES FOR EACH FIXTURE.
- PROVIDE I" CW & 1/2" HW WATER HAMMER ARRESTORS ON EVERY BRANCH LINE AS SHOWN ON PLANS.
- PROVIDE ALL REQUIRED WALL OR HANGER BRACKETS AS

 NEED FOR NEW COPPER AND PEX PIPING.
- DEMO EXISTING DCW AND DHW LINES BACK TO POINT OF CONNECTION AT TUNNEL.

ALT BID #2A: E-BLOCK:

- ROUTE TRUNK LINES AS NOTE IN BASE BID FOR D-BLOCK.
- WATER CONNECTIONS TO EXISTING MAINS IS SIMILAR TO THE PHOTOS AND DETAILS SHOWN ON SHEET P6.0 & P6.I

ALT BID #2B: E-BLOCK:

- CONNECT DOW AND DHW TO 400 LAVATORIES AND WATER CLOSETS AS SHOWN ON THE PLANS.
- PROVIDE INDIVIDUAL SHUT OFF VALVES FOR EACH FIXTURE.
- PROVIDE I" CW & 1/2" HW WATER HAMMER ARRESTORS ON EVERY BRANCH LINE AS SHOWN ON PLANS.
- PROVIDE ALL REQUIRED WALL OR HANGER BRACKETS AS
 NEED FOR NEW COPPER AND PEX PIPING.
- DEMO EXISTING DCW AND DHW LINES BACK TO POINT OF CONNECTION AT TUNNEL.

MATERIALS AND DESIGN REQUIREMENTS:

PIPE MATERIAL:

- ALL PIPE 3" AND LARGER TO BE RUN AS COPPER.
 - PRESS FIT FITTINGS MAY BE USED AS AN ALTERNATE METHOD OF PIPE JOINTS.
- •• OTHER MECHANICAL JOINTS SYSTEMS MAY BE PROPOSED DURING BIDDING.
- ALL PIPE 2-1/2" AND SMALLER TO BE PEX SUPPORT WITH SADDLES AS REQUIRED FOR INSTALLATION IN A EXHAUST AIR PLENUM. SEE CUT SHEETS ON SHEET P6.2
 2-1/2" PIPES MAY USE COPPER IF DESIRED.

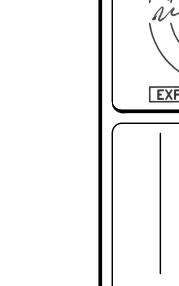
VALVES:

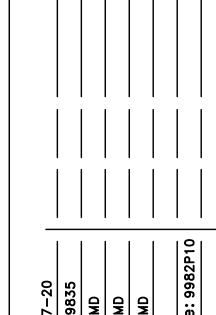
- ALL NEW VALVES TO BE 3-PIECE BALL VALVES WHERE POSSIBLE.
- GATE VALVES MAY BE USED WHERE SPACES OR INSTALLATION CONSTRAINTS PREVENT USE OF BALL VALVES.
- PROVIDE WATER HAMMER ARRESTERS AS SHOWN ON THE
 PLANS AND AS SHOWN ON THE CUT SHEETS ON SHEET P6.2
- PROVIDE THERMOSTATIC ZONE VALVES AT THE BASE OF EACH HOT WATER RISER/START OF HOT WATER RECIRC SYSTEM, PROVIDE ACORN THERMOSTATIC ZONE VALVE AS SHOWN ON PLANS AND CUT SHEETS ON SHEET P6.2
- PROVIDE NEW MYE STRAINERS ON COLD WATER AND HOT WATER SUPPLIES TO CELL BLOCKS.

SPECIALTY TOOLS:

ONE SET OF SPECIALTY TOOLS NEEDED FOR PIPE INSTALLATION OR REPAIR TO BE TURNED OVER TO OWNER AT COMPLETION OF THE PROJECT - -THIS INCLUDES TOOLS NEEDED FOR PEX FITTINGS UP TO THE LARGEST SIZE OF PEX USED ON THE PROJECT AND ANY TOOLS REQUIRED FOR PRESS FIT OR OTHER MECHANICAL JOINT SYSTEMS USED ON THE PROJECT.

PUMPS	
MARK NUMBER	CP 1
SERVICE	DHW RECIRC
TYPE	CIRC
CONTROLLED BY	AQUASTAT
ARRANGEMENT	IN-LINE
FLOW RATE (GPM)	6.0
HEAD (FT)	40
MOTOR HP	40 WATTS
RPM	
DESIGN WEIGHT (LBS)	20





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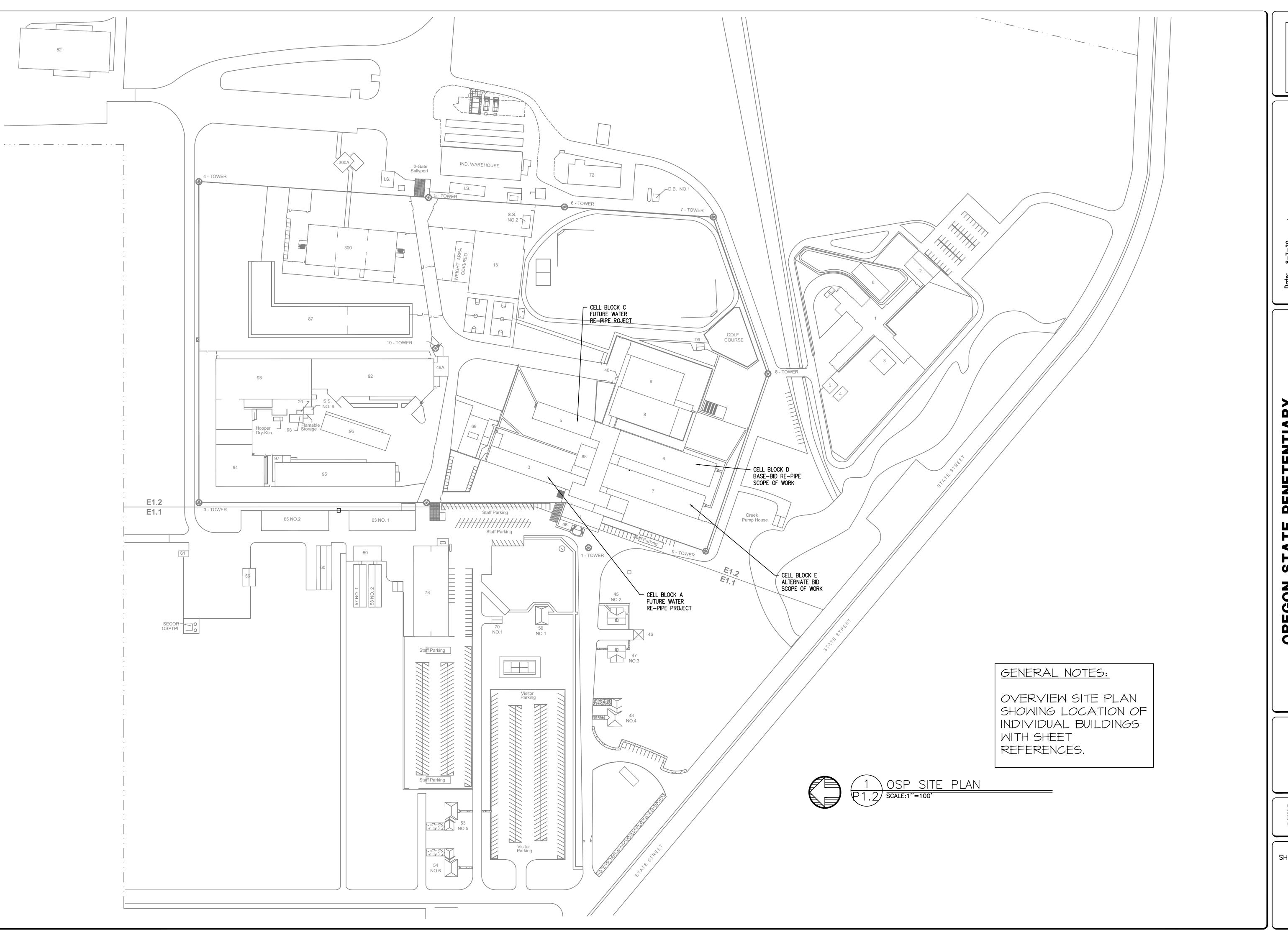
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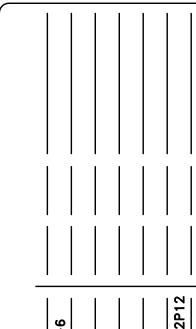
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Proj No: 9835-6
Drawn By: MD
Chkd By: MD
DSGN By: MD

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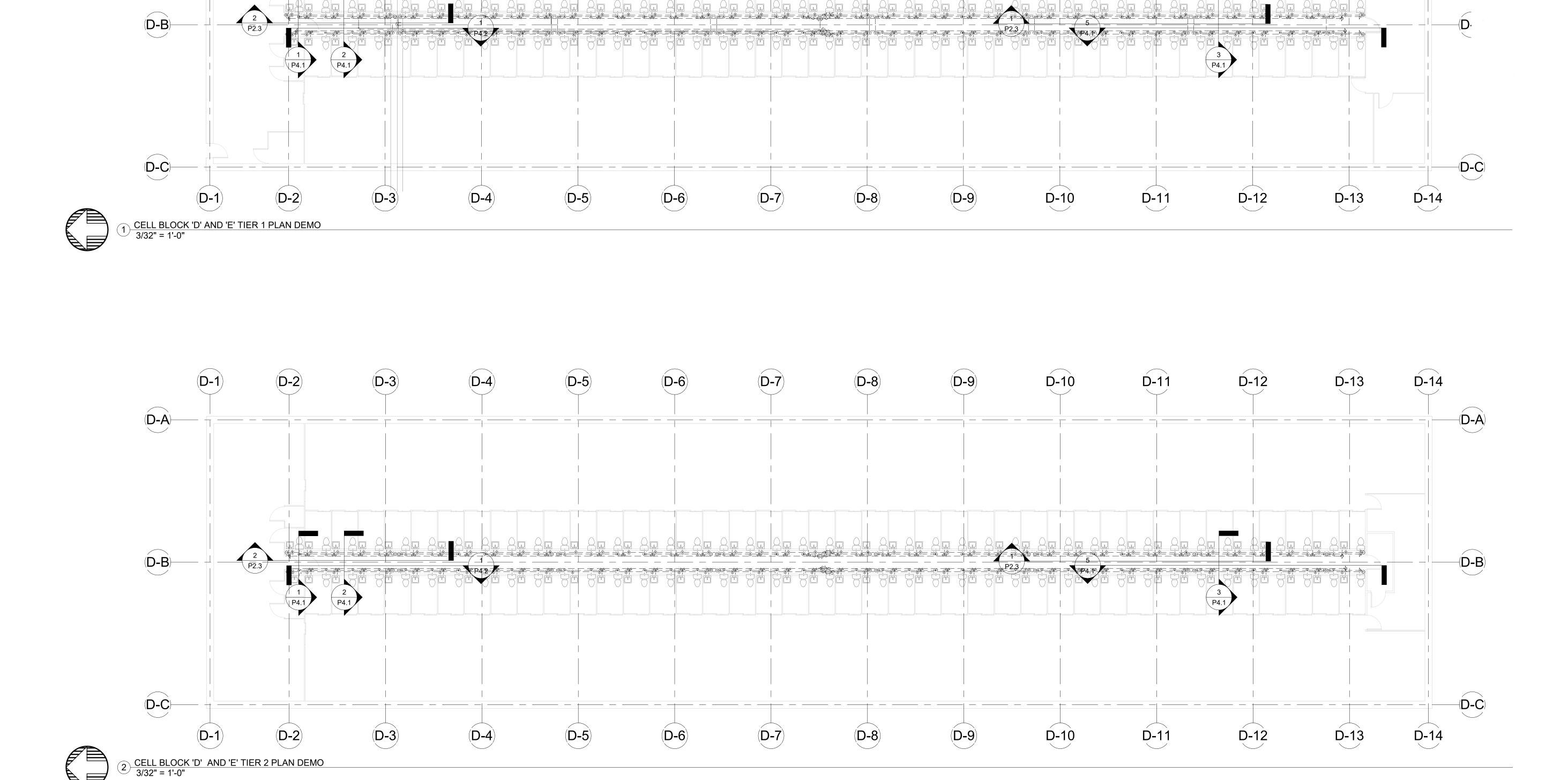




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SHEET P2.0

4 OF 16



(D-2)

(**D-A**)-

(D-3)

(E) CW, HWR AND HW LOCATED IN TUNNEL TO REMAIN

D-10

D-11

D-12

D-13

Ď-14

(D-9)

\Im TIER AND <u>ר</u> BLOCK CELL

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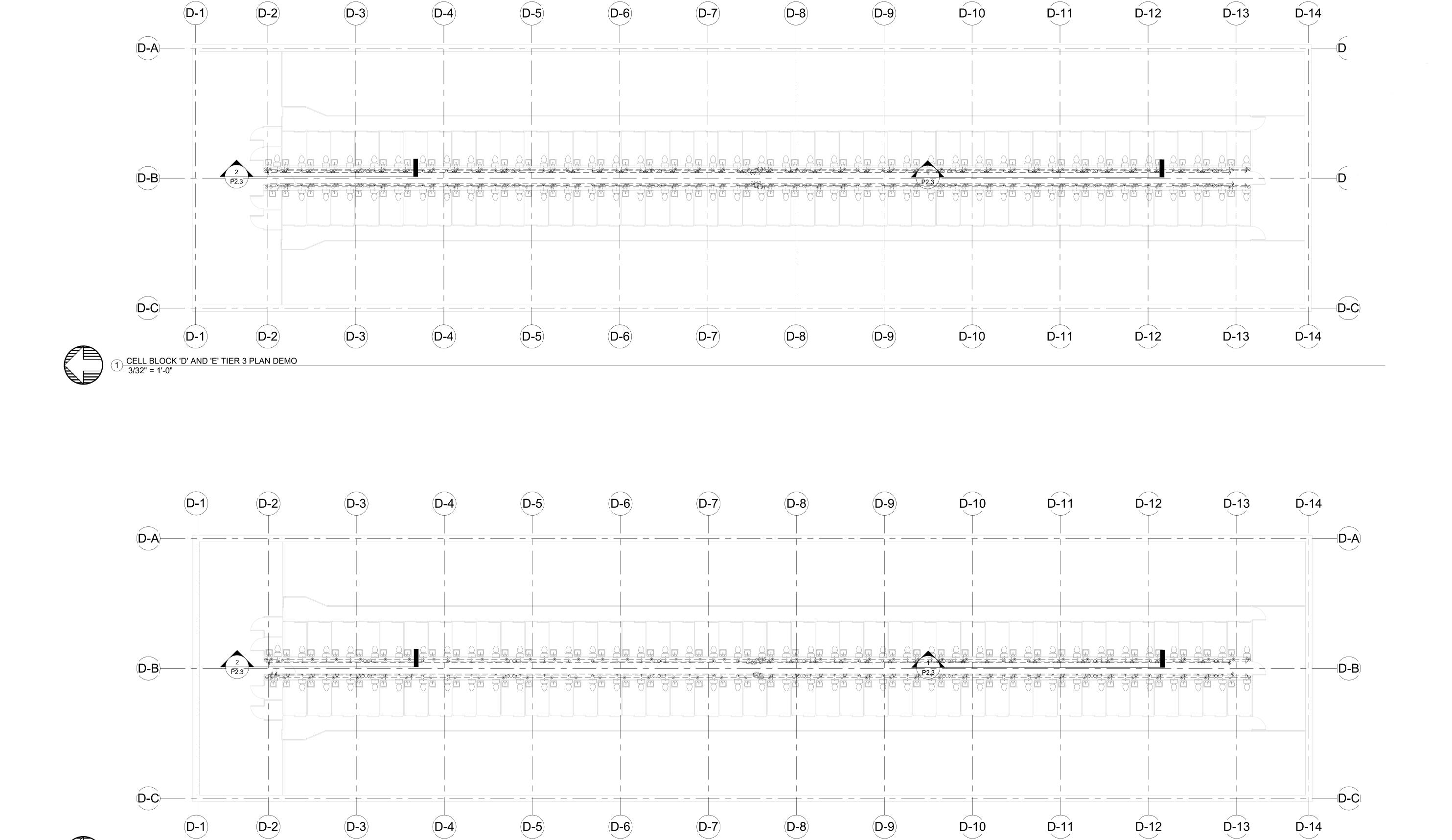


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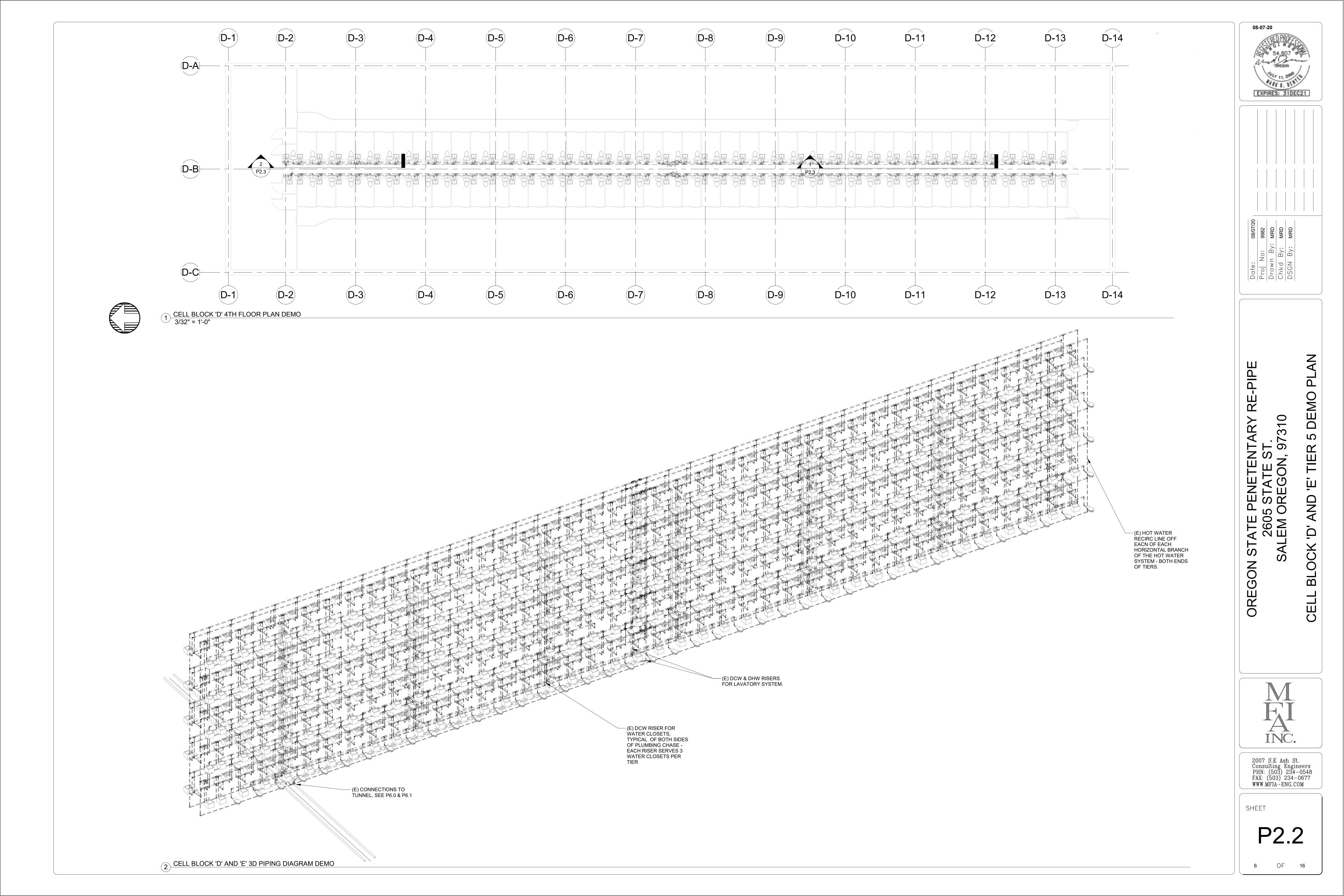
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2 CELL BLOCK 'D' AND 'E' TIER 4 PLAN DEMO 3/32" = 1'-0"

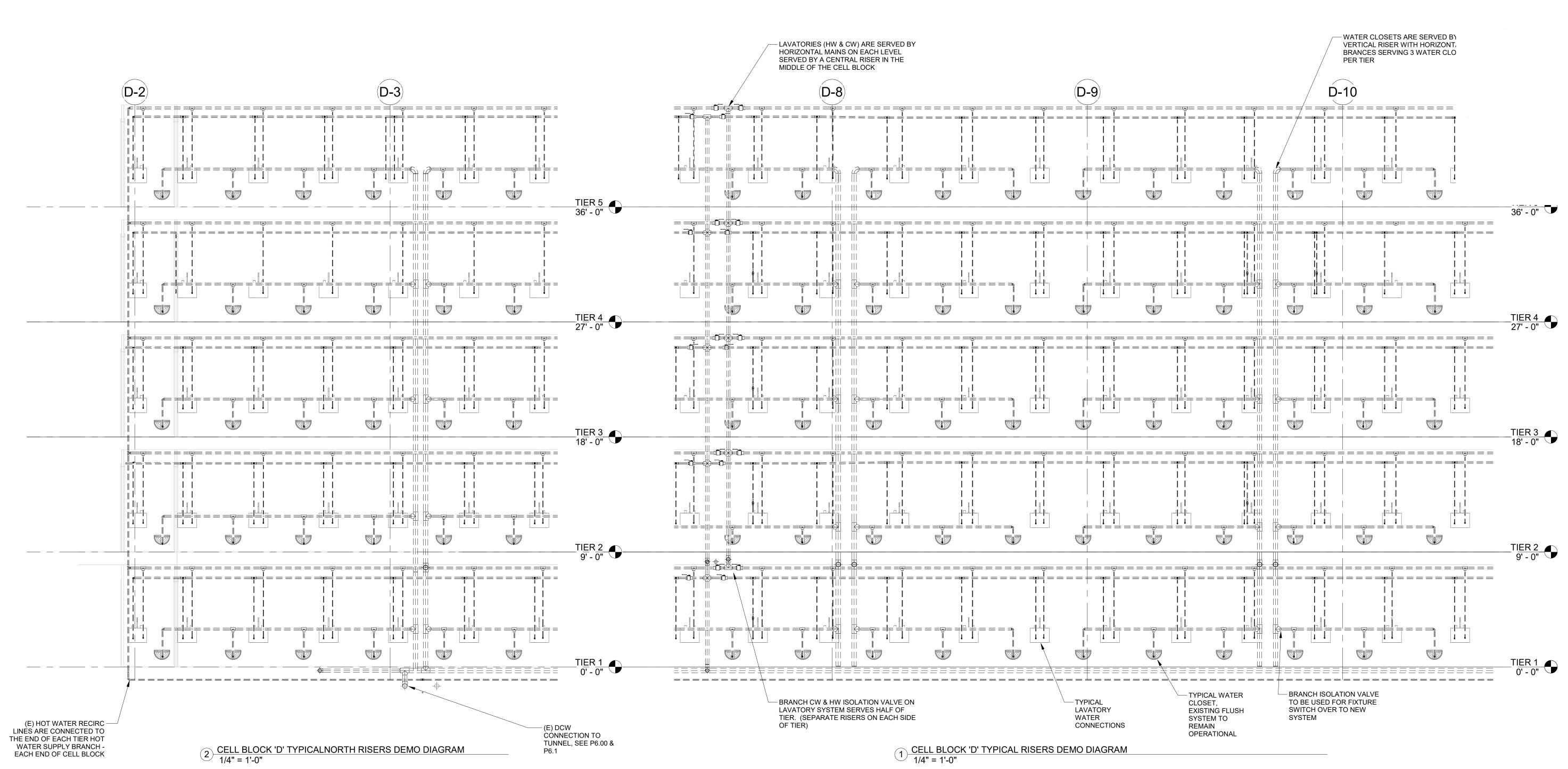


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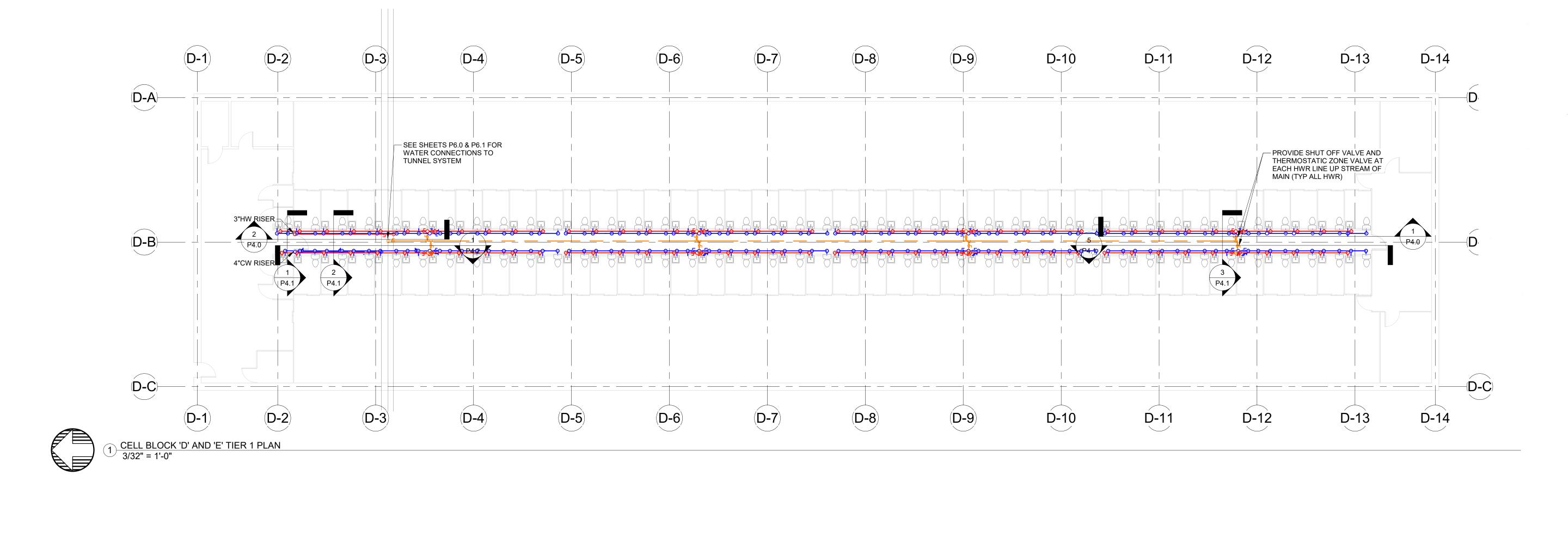
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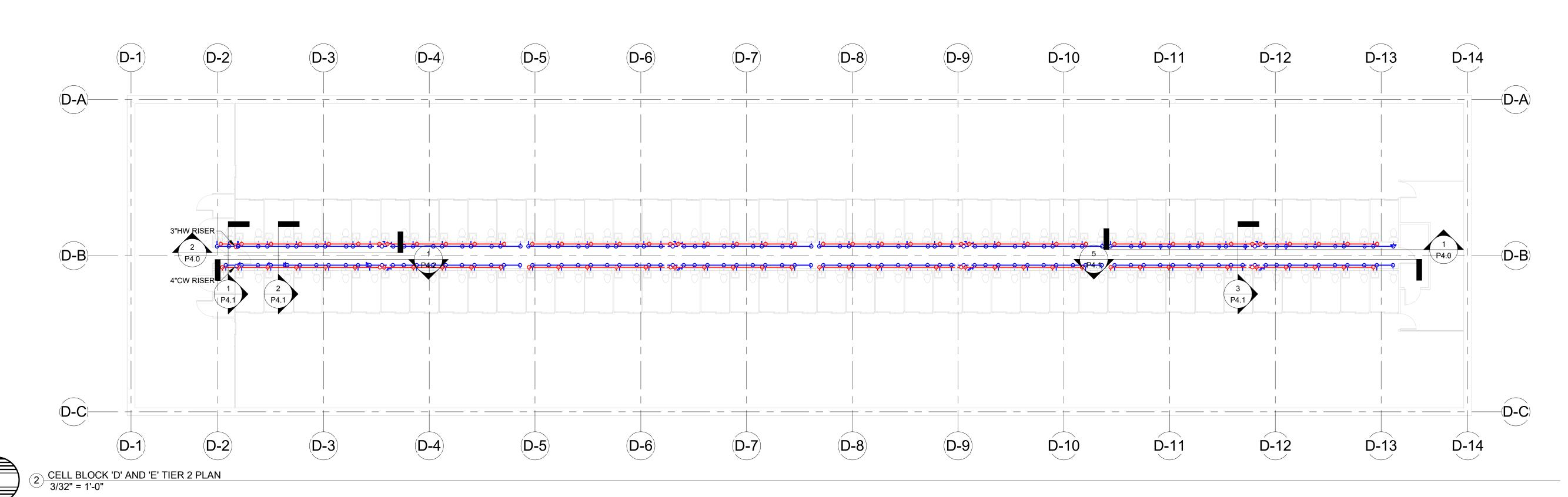
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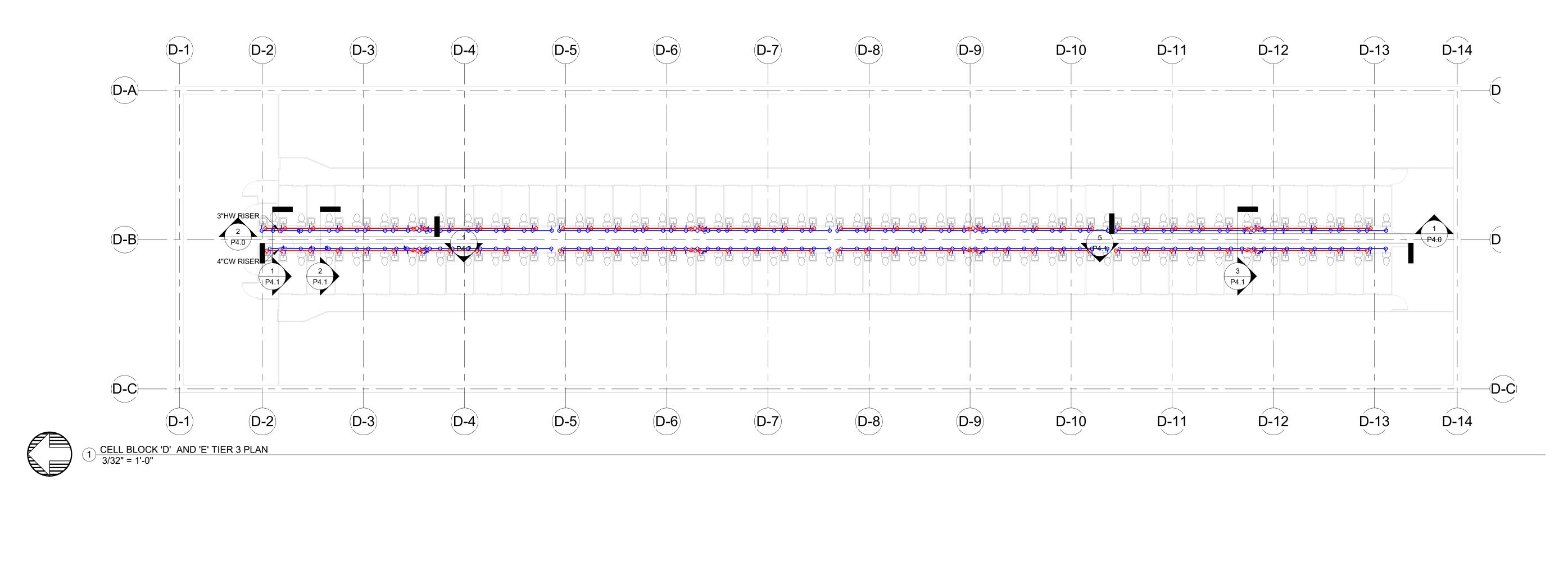
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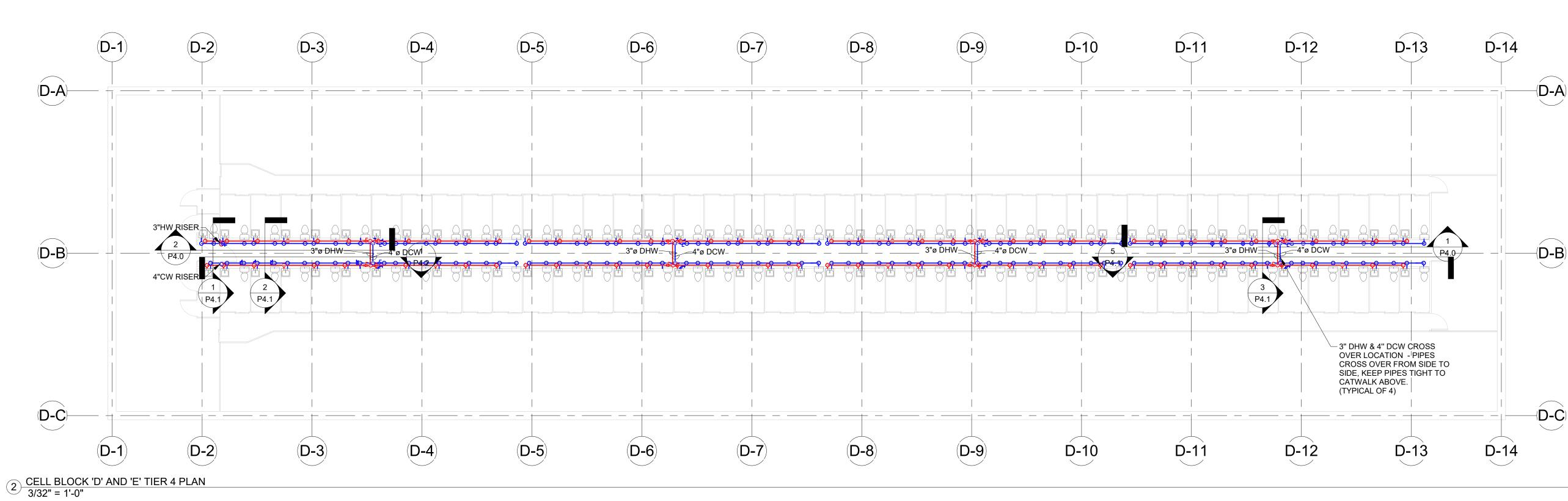
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CELL BLOCK 'D' AND 'E' TIER 5 PLAN

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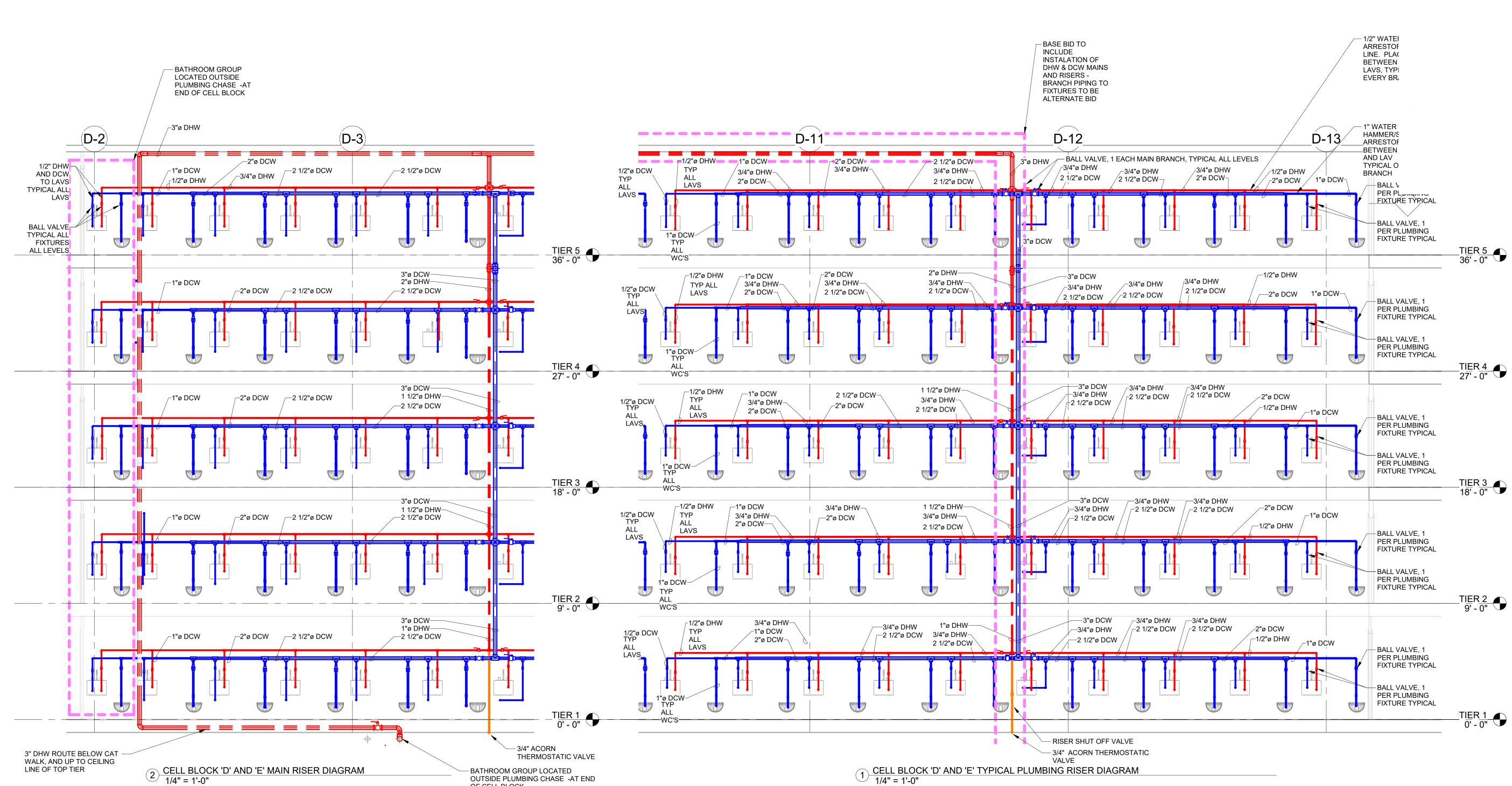
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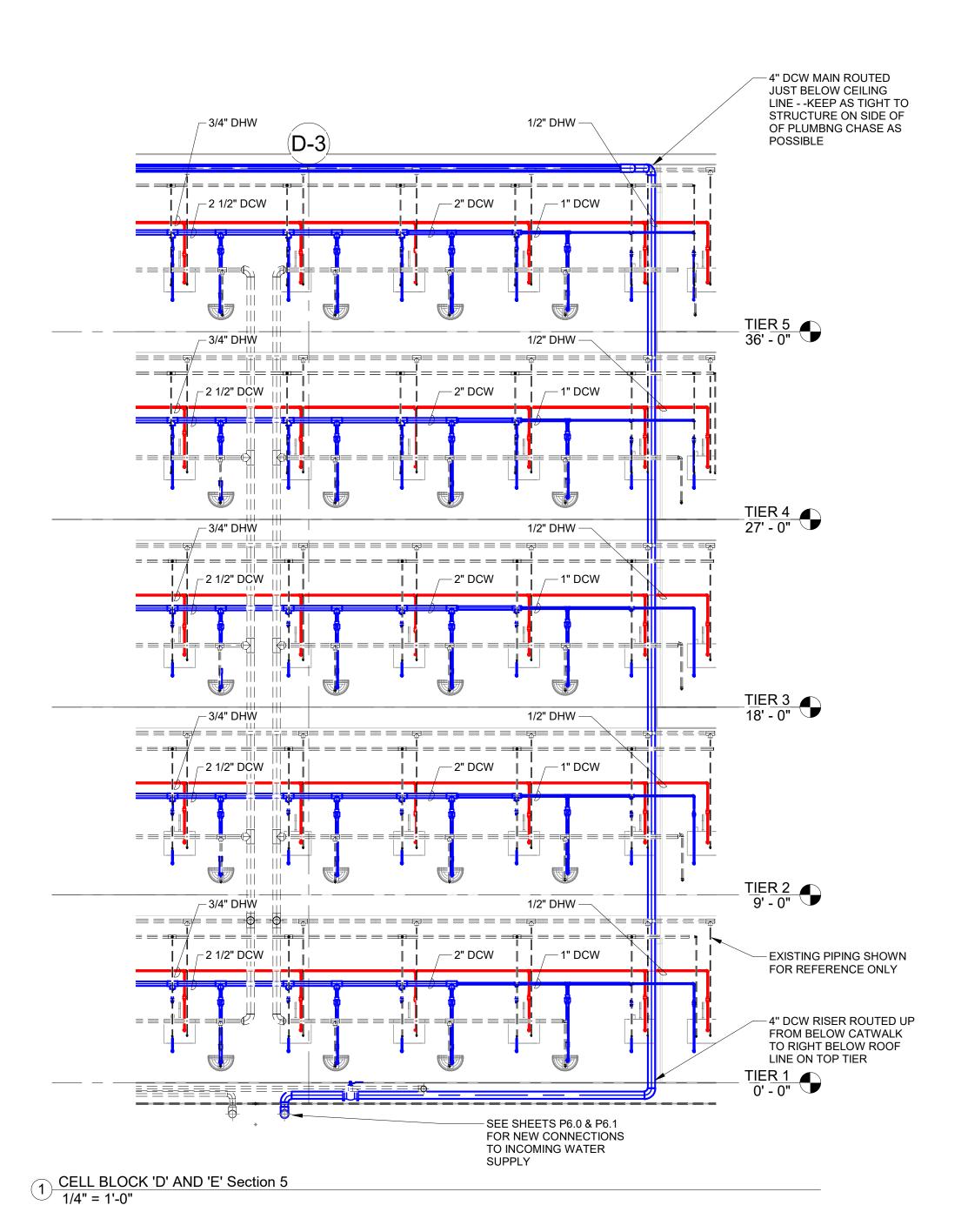
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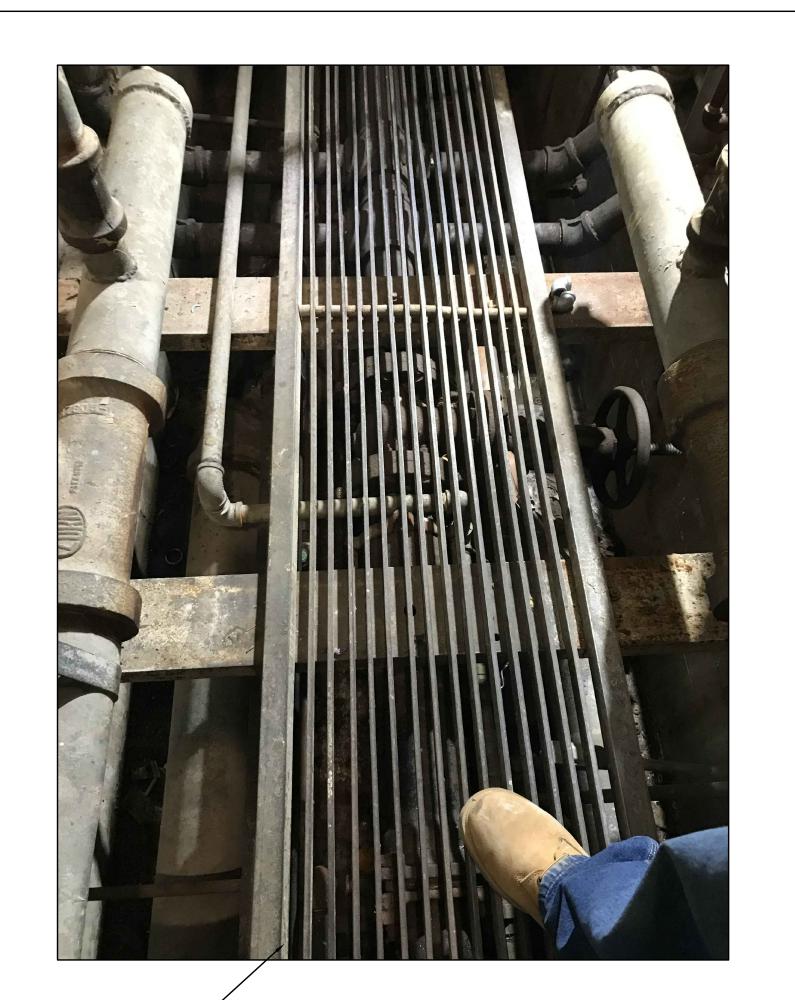


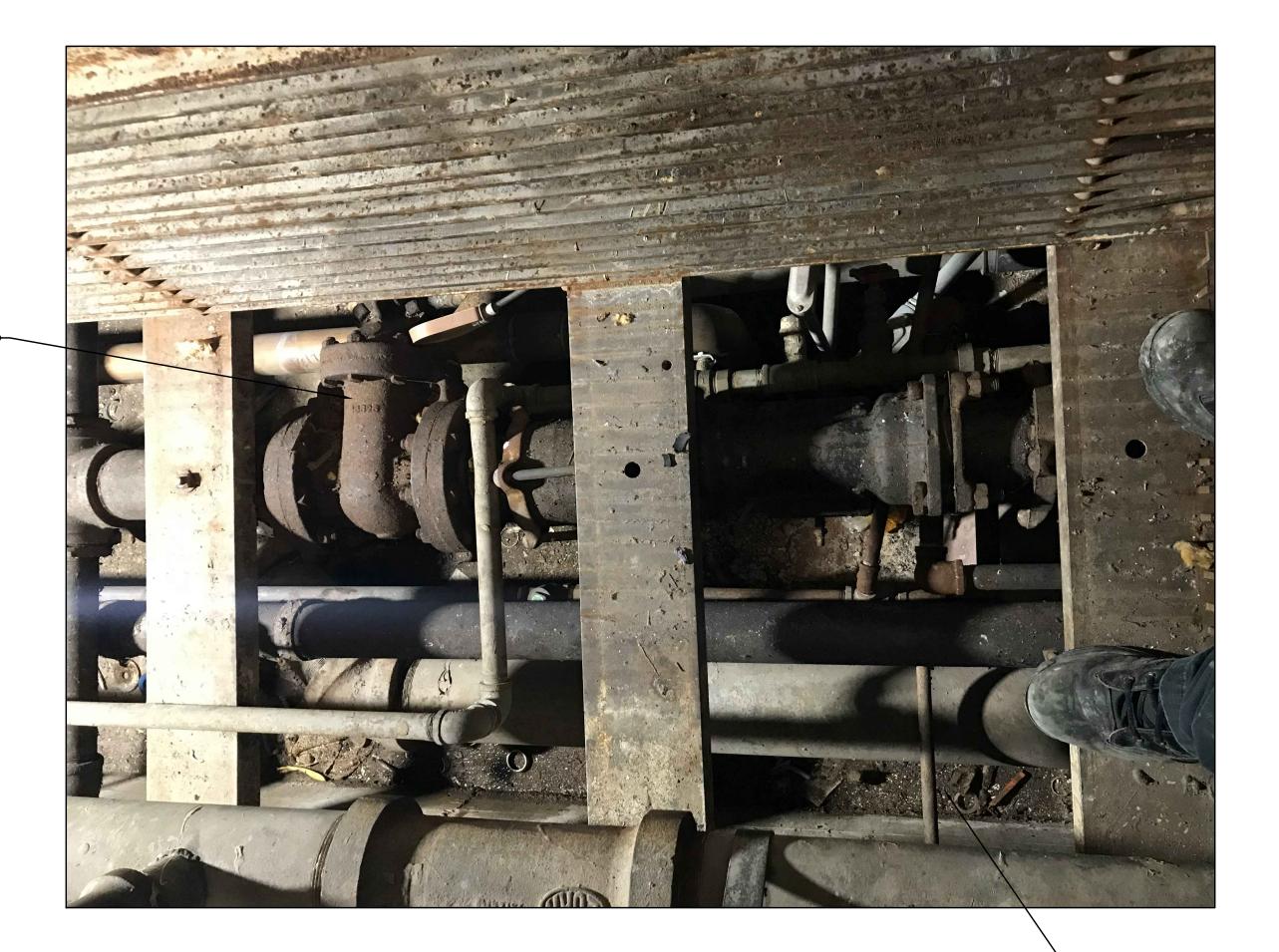
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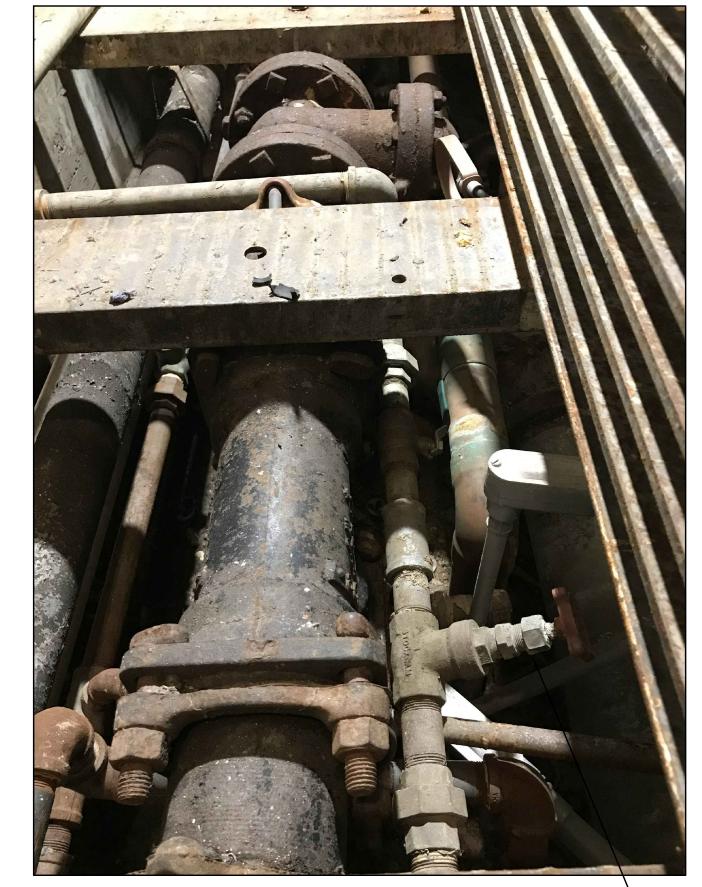
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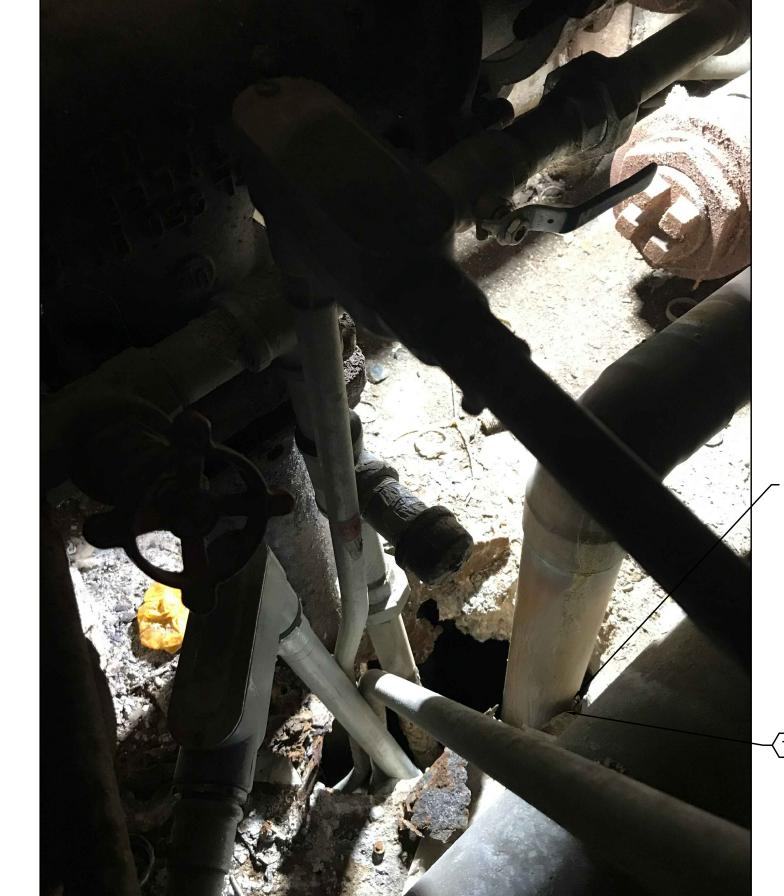


4" DCM PIPE PENETRATION OF CELL BLOCK PIPE CHASE FLOOR FROM TUNNEL









1 EXISTING WATER SUPPLY PHOTOS PICTURES

SEE DETAIL
ON SHEET P6.1
FOR PICTURE
TAGS

7 3" DHW PIPE
PENETRATION OF CELL
BLOCK FLOOR FROM
TUNNEL

D-BLOCK:

PICTURES, DETAILS AND DESIGN ARE SPECIFICALLY FOR D-BLOCK E-BLOCK IS SIMILAR ARRANGEMENT AND ALL REQUIRED WORK TO BE SIMILAR

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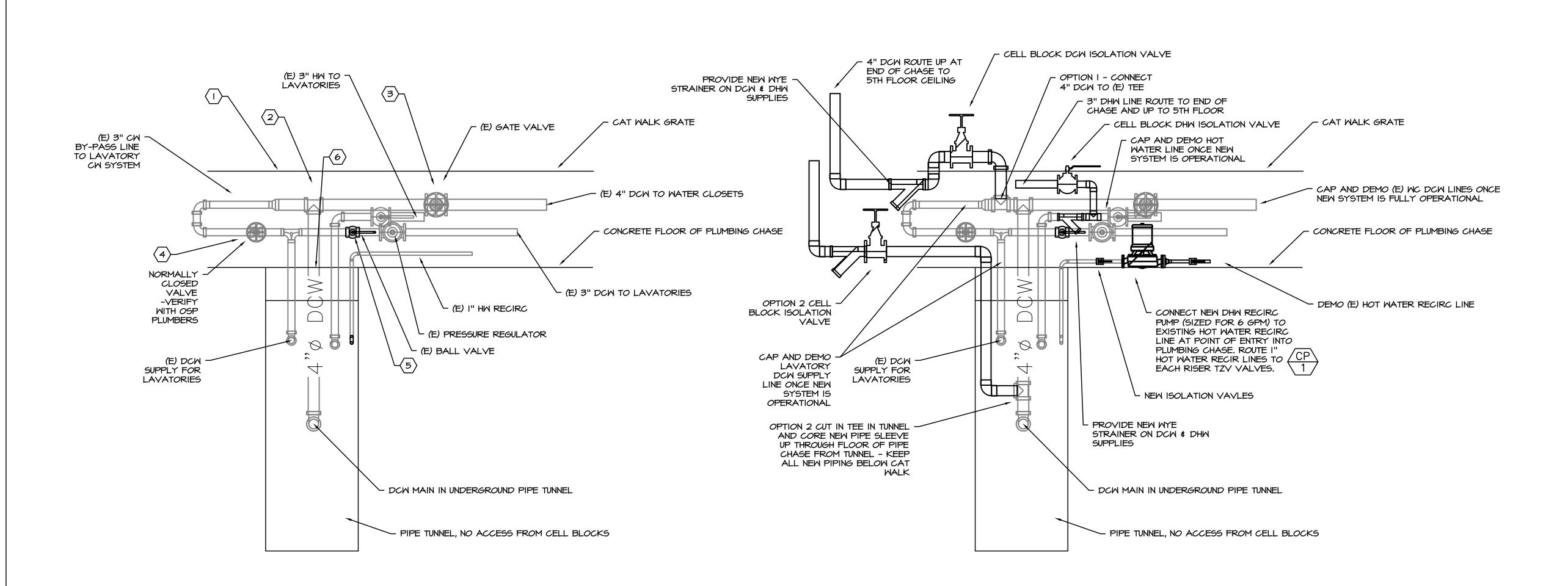
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1 EXISTING WATER SUPPLY — SECTION DETAIL P6.1 SCALE: 1/2"=1'-0"

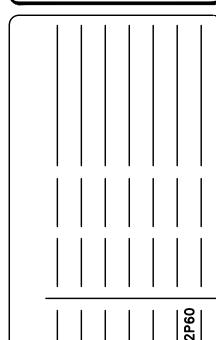
2 NEW WATER CONNECTIONS
P6.1 SCALE: 1/2"=1'-0"

D-BLOCK:

PICTURES, DETAILS AND DESIGN ARE SPECIFICALLY FOR D-BLOCK E-BLOCK IS SIMILAR ARRANGEMENT AND ALL REQUIRED WORK TO BE SIMILAR

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P6.1

Representative _

LEAD FREE

Series LF15M2 **Water Hammer Arrestors**

Sizes: ½" - 1"

What is Water Hammer?

The noise from banging pipes is caused by shocks of high speed water flowing in the piping system when a fixture is suddenly closed. Sudden stoppage of the water (a non-compressible liquid) flowing at a given pressure and velocity causes a surge or spike of water and is called water hammer. When this occurs, a pressure wave travels back through the piping until it finds a point of relief. The LF15M2 and LF15M2S Water Hammer Arrestors are designed to eliminate this effect. The LF15M2 and LF15M2S features Lead Free* construction to comply with Lead Free* requirements. Dishwashers, clothes washers, fast closing positive shutoff valves incorporated in the system all contribute to creating water shock which is not only annoying but damaging to pipes and appliances. The Watts Series LF15M2 and LF15M2S incorporates a precharged, permanent sealed air chamber to absorb the shock. The **Pressure - Temperature** sealed chamber prevents the loss of air to the water and assures

Features

long and trouble-free life.

NPT solid hex brass adapter or solder end connection

for easy installation Approved for installation with no access panel required May be installed in new or existing plumbing systems with a standard pipe tee vertically, horizontally or at any angle PDI Listed (PDI WH201)

A112.26.1M approved, PDI WH201 approved and certified.

 Maintenance free – piston is the only moving part Air pre-load is 60psi (4.2 bar) Factory air charged and permanently sealed

Standards









Watts product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements,

please contact Watts Technical Service. Watts reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts products previously or subsequently sold.



Operating Pressure: Designed to operate on all domestic and commercial lines @ 150psi (10.6 bar) working pressure. Temperature Range: 33°F to 180°F (0.5°C to 82°C).

Body:	Copper
Piston:	Polypropylene
Threaded Adapter:	Lead Free* Br
O-ring:	EPDM

NOTICE

The information contained herein is not intended to replace the full product installation and safety information available or the experience of a trained product installer. You are required to thoroughly read all installation instructions and product safety information before beginning the installation of this product.

NOTICE

Inquire with governing authorities for local installation requirements *The wetted surface of this product contacted by consumable water contains less than 0.25% of lead by weight.

ACORN

NWATTS

TZV Revised: 07/15/19

ES-LF15M2 1329

© 2013 Watts

TempFlow[®]

Model TZV Thermostatic Zone Valve

APPLICATION:

The Acorn TZV is a thermostatically controlled zone balancing valve which automatically maintains the domestic hot water loop/zone temperature. By simply installing the valve after the last hot water device in each loop, it will self-adjust and balance the recirculated flow and heat loss of each TZV controlled zone. This ensures fast and consistent delivery of hot water to all fixtures all the time.

FEATURES:

- Eliminates the need for time-consuming and costly setup balancing and frequent rebalancing required by Circuit Setters
- ◆ Lead-Free certified DZR brass body with corrosionresistant and lead-free internal components.
- Includes a test port which can also serve as a bleed valve during setup.
- Integral and cartridge-style check with accessible screens to prevent backflow and to filter debris from entering the valve.
- The TZV is field adjustable from 100°F to 160°F. Replacement is not required if the target temperature changes.
- An Allen wrench/locknut helps prevent unauthorized setpoint adjustment.
- Commercial quality paraffin actuator provides
- repeatable, reliable performance. Factory set to 110°F (43°C).
- Enables/Promotes less expensive pumps.
- Reduces installation and maintenance costs. Reduces pipe/fitting erosion by minimizing fluid

♦ The wetted surface of these valves contacted by consumable water contains less than 0.25% of lead by weight in conformance with national lead free law.

GUIDE SPECIFICATION:

The Thermostatic Zone Valve shall have a solid brass body with corrosion-resistant internal components. It shall include an integral check valve and strainer to prevent backflow and filter debris from entering the valve. Zone temperature adjustment shall be from 100°F to 160°F (38°C to 71°C) and is made using an Allen wrench and a locknut on the bonnet prevents unauthorized or accidental temperature adjustment. Valve shall proportionally modulate to maintain zone temperatures based on heat loss and shall stabilize pump demand to prevent cycling. The TZV modulates its Cv from a maximum of 0.7 to a minimum of 0.05 with a 10°F (5.6°C) change in zone temperature. The valve shall not have positive shut-off thereby preventing pump dead-heading and/or subsequent overheating. Valve shall be Acorn model TZV.

Model TZV-2 Shown (♦)

ACCESSORIES:

VALVE SELECTION:

☐ TZV-1 Thermostatic Zone Valve with Cap on Cold Water

☐ -AD Access Door (20" x 20") White Prime Coat Finish with

☐ -SS Stainless Steel With Satin Finish

Shut-Offs, Inlet Temperature Gauge and Pipe Union

(♦ NOTE: Components Shipped Unassembled For

TZV-2 Thermostatic Zone Valve with Three Ball Valve

Field Installation)

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Submittal # TZV Revised: 07/15/19



CONTROLS Pb Fed Patent Pending

Fixture Units Sizing Information Sizing and Placement No. LF15M2/LF15M2S Typical Branch Line Pedestal Urinal 1.06 PF Stall or Wall Urinal Flush Valve 1.06 PF Stall or Wall Urinal Flush Tank 1.06 PF As shown, it has been established that the preferred location for the water hammer arrestor is at the end of the branch line between the last two fixtures served. Mixing Valve The location of the water hammer arrestor shown above applies Bathroom Group Flush Valve Closet to branch lines that do not exceed 20 ft. (6m) in length, from the Bathroom Group start of the horizontal branch line to the last fixture supply on this Separate Shower Mixing Valve branch line. When the branch line exceeds the 20 ft. (6m) length, an additional water hammer arrestor should be used. This prac-Laundry Tubs (1-3) tice is best defined by two rules which have been established to cover the placement of water hammer arrestors. Dimensions - Weight - Up to 20 ft. (6m) -Rule 1 covers multiple fixture branch lines which do not exceed 20 ft. (6m) in length. **Explanation -** Fixture-unit sizing and selection table is used to select the required PDI unit (water hammer arrestor). Rule 2 covers multiple fixture branch lines which do exceed 20 ft. (6m) in length. **Explanation -** Fixture-unit sizing and selection table is used to ' LF15M2-A | 11/8 28.5 | 515/16 150.9 | 0.5 0.2 select the required PDI unit (water hammer arrestor). The sum LF15M2-B 13/8 34.9 85/16 218.0 0.9 0.4 of the fixture units rating of units X and Y shall be equal to or 15/8 41.3 8¹³/₁₆ 223.5 1.3 greater than the demand of the branches. 1" LF15M2 D 21/6 54.0 915/6 252.5 2.0

LF15M2-A 0750160 LF15M2-AS 0750150 1-11

LF15M2-B 0/50161 LF15M2-BS 0/50151 12-32

LF15M2-E | 0750164 | LF15M2-ES | 0750154 | 114-154

1" LF15M2-F 0750165 LF15M2-FS 0750155 155-330 F

1" LF15M2-C 0750162 LF15M2-CS 0750152 33-60 C

LF15M2-D 0750163 LF15M2-DS 0750153 61-113 D

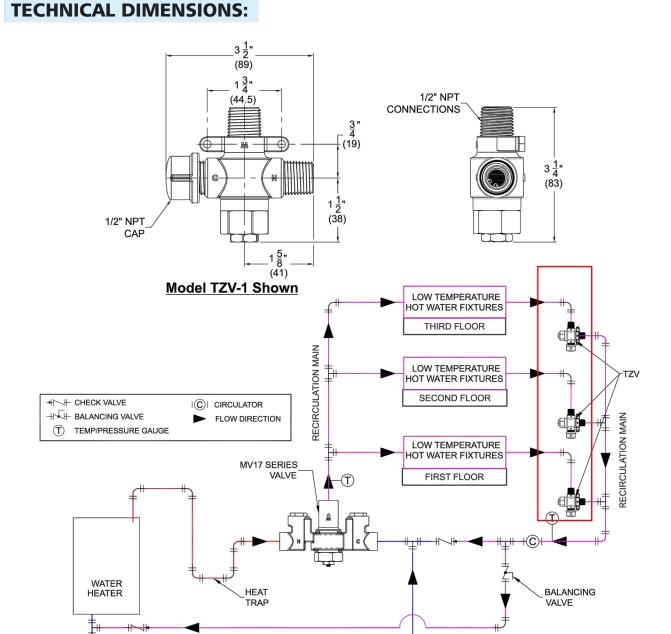
USA: T: (978) 689-6066 • F: (978) 975-8350 • Watts.com Canada: T: (905) 332-4090 • F: (905) 332-7068 • Watts.ca Latin America: T: (52) 81-1001-8600 • Watts.com

" LF15M2-DS 21/8 54.0 11 280.0 1.63 0.7 " LF15M2-ES 21/8 54.0 131/2 343.0 1.98 0.9

" LF15M2-FS 21/8 54.0 16 406.5 2.32 1.1

ACORN





TYPICAL PIPING DIAGRAM

▲ WARNING: Cancer and Reproductive Harm - www.P65Warnings.ca.gov

Acom Controls warrants that its products are free from defects in material or workmanship under normal use and service for a period of one

year from date of shipment. Acorn's liability under this warranty shall be discharged solely by replacement or repair of defective material, provided Acorn is notified in writing within one year from date of shipment, F.O.B. City of Industry, California. ACORN ENGINEERING COMPANY 800-488-8999 or 626-336-4561 www.acorneng.com

Uponor PEX codes and standards

odes: IMC, IPC, IRC, NSPC, UMC, UPC, NPCC, IBC dards: ASTM E84, ASTM E814, ASTM E119, ASTM F876, ASTM F877, ASTM F2023, ASTM F1960, ASTM F2657,

ASTM E84 (plenums)

Uponor PEX pipe products are approved for installation in return-air plenums as described below. All Uponor PEX pipe, Uponor ProPEX rings and Uponor ProPEX fittings (EP, brass

1/2" to 3/4" Uponor PEX (uninsulated)

Adjacent runs of uninsulated 1/2" to 3/4" Uponor PEX pipe in a return-air plenum must be separated by 18".

and lead-free brass) were tested and approved.

outside diameter (OD) of 3" and supported with Uponor PEX-a Pipe Support. Pipe or fitting sections without PEX-a Pipe Support must be covered with a rated insulation. There is no minimum length of PEX-a Pipe Support segments. There are

Classified as to surface burning characteristics				
ASTM E84	Flame spread	lame spread Smoke developed Limitations		
Nominal ½" to ¾" size	25 or less	50 or less	Adjacent pipe runs shall be located at least 18" apart.	
3" maximum nominal size Uponor PEX-a supported with Uponor PEX-a Pipe Support	25 or less	50 or less	Pipe or fitting sections without PEX-a Pipe Support must be covered with a rated insulation. There is no minimum length of PEX-a Pipe Support segments.	
3" maximum nominal size Uponor PEX-a with ½" insulation	25 or less	50 or less	1/2" minimum thickness insulation	

Table 5: Uponor PEX ASTM E84 requirements

PEX-a Pipe Support installation in ASTM E84 applications

Exposed section must be insulated Rated insulation ProPEX fitting Uponor PEX pipe Uponor PEX-a Pipe Support

Figure 4: PEX-a Pipe Support installation in ASTM E84 applications

with Uponor PEX-a Pipe Support

Up to and including 3" Uponor PEX-a supported

Uponor PEX-a piping manufactured with a maximum nominal

also no spacing limitations between adjacent runs of this pipe.

Up to 3" Uponor PEX (insulated)

Uponor PEX manufactured with a maximum OD of 3" nominal pipe size (NPS) and encased in an approved 1/2" fiberglass insulation shall have no limitation on spacing. This applies to piping runs with or without Uponor EP fittings. Refer to Chapter 3 of the Uponor Plumbing Design Assistance Manual (PDAM) for approved insulations.

Per UL fire-resistance classifications and follow-up service inspections, ongoing verification of product compliance is achieved through quarterly inspection audits at manufacturing location(s) during which a review of the product's process, suppliers and in-house quality control procedure is conducted. This audit ensures the product has not changed since the ASTM E84 testing was conducted and will still meet the requisite standards.

PEX-a Pipe Support

Contractor: Manufacturer's Representative:	Submitted By: Approved By:					
Engineer:	Date Submitted:	Date Submitted:				
Location:	Part No. Ordered:	_				
Job Name:						
Project Information						
Revision D: Dec. 23, 2014						

Commercial-grade (Type B) galvanized steel **Product Information and Application Use**

PEX-a Pipe Support is a non-combustible, self-gripping, galvanized-steel channel

for crosslinked polyethylene (PEX-a) pipe. It provides continuous, uninterrupted support of PEX-a pipe, allowing hanger placement similar to that of metallic pipe. Use PEX-a Pipe Support in conjunction with un-insulated Uponor AquaPEX® or Wirsbo hePEX™ PEX-a pipe in ASTM E84 plenum applications. The PEX-a pipe with pipe support can be insulated with typical CTS (copper tube size) pipe insulation. PEX-a Pipe Support is offered in 9-foot lengths and comes with nylon-coated, stainless-steel strapping.

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✓ Description	Part Number	Height	Width	Length	Gauge	Weight
☐ ½" PEX-a Pipe Support, 9-ft. length	F7040500	0.42"	0.75"	108"	23	1.10 lbs.
☐ ¾" PEX-a Pipe Support, 9-ft. length	F7040750	0.56"	1.00"	108"	23	1.50 lbs.
☐ 1" PEX-a Pipe Support, 9-ft. length	F7041000	0.64"	1.13"	108"	23	1.91 lbs.
☐ 1¼" PEX-a Pipe Support, 9-ft. length	F7041250	0.79"	1.38"	108"	23	2.10 lbs.
☐ 1½" PEX-a Pipe Support, 9-ft. length	F7041500	0.93"	1.63"	108"	23	2.50 lbs.
2" PEX-a Pipe Support, 9-ft. length	F7042000	1.14"	2.00"	108"	23	3.60 lbs.
2½" PEX-a Pipe Support, 9-ft. length	F7042500	1.25"	2.52"	108"	23	4.60 lbs.
3" PEX-a Pipe Support, 9-ft. length	F7043000	1.90"	3.12"	108"	23	6.20 lbs.
☐ 3½" PEX-a Pipe Support, 9-ft. length	F7043500	2.16"	3.60"	108"	23	6.40 lbs.

Install PEX-a Pipe Support vertically or horizontally for plenum and non-plenum applications. Refer to the Uponor PEX-a Pipe Support Instruction Sheet for installation guidelines

Accessories Q7410510: PEX-a Pipe Support Strapping (½", ¾", 1" PEX) Q7411220: PEX-a Pipe Support Strapping (1¼", 1½", 2" PEX) Q7412540: PEX-a Pipe Support Strapping (2½", 3", 3½", 4" PEX)

Standards ASTM E84 (up to 3") Codes

Related Applications

IMC, UMC, NBCC Listings QAI P321 (up to 3")

PEX-a Plumbing Systems Radiant Heating and Cooling Systems AquaSAFE™ Fire Safety Systems

5925 148th Street West Apple Valley, MN 55124 USA Phone: 800.321.4739 Fax: 952.891.2008 www.uponorpro.com

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2000 Argentia Rd., Plaza 1, Ste. 200 Mississauga, ON L5N 1W1 CANADA Phone: 888.994.7726 Fax: 800.638.9517 www.uponorpro.com



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