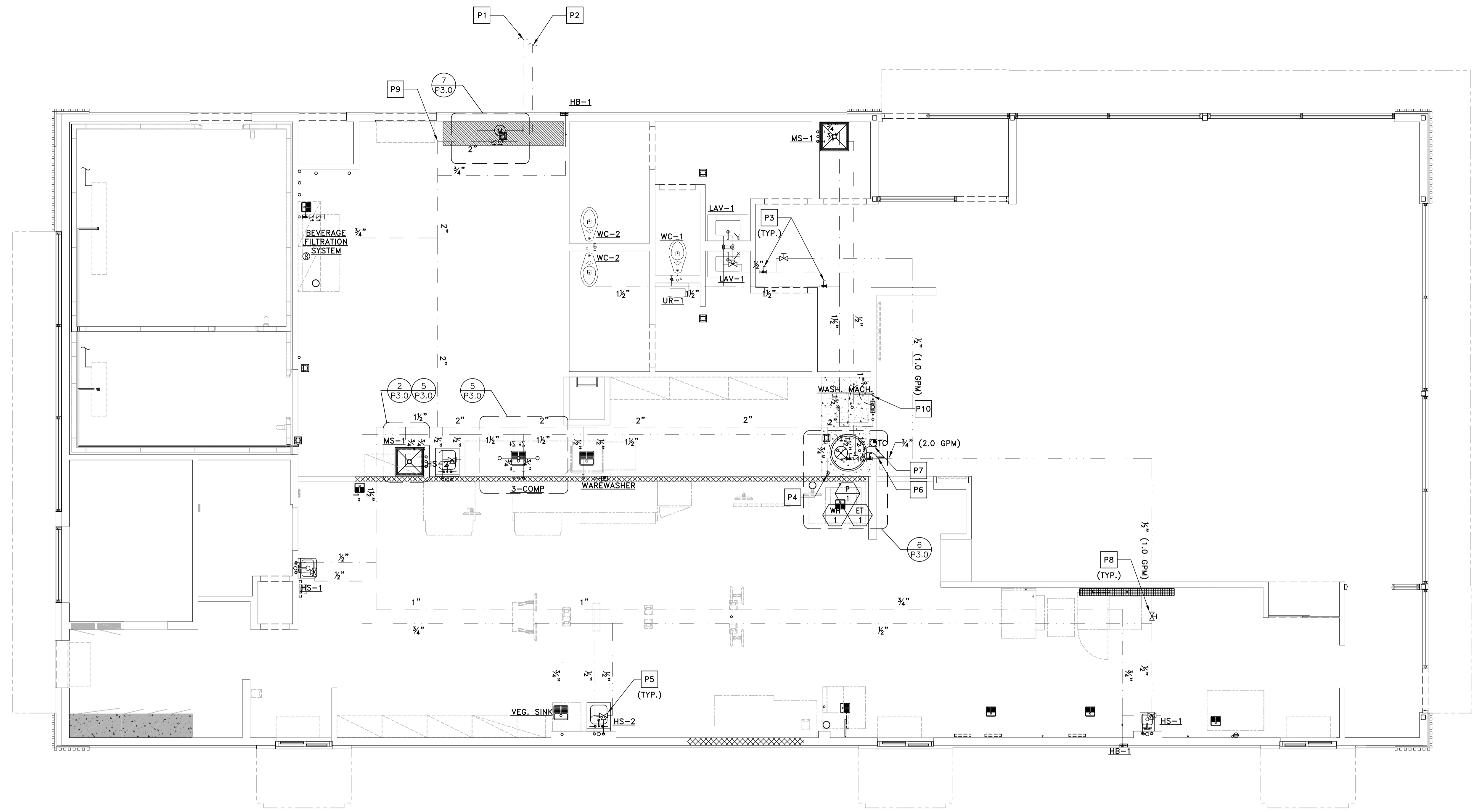


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*Kevin R. Davis* 04/25/23  
SIGNATURE DATE

PRJ2023-00032



1 DOMESTIC WATER PIPING  
SCALE: 1/4" = 1'-0"

**DRAWING NOTES**

1. PIPING ROUTES AS SHOWN ARE GENERAL AND MAY VARY DUE TO FIELD CONDITIONS. COORDINATE ALL PIPE ROUTES WITH OTHER TRADES.
2. ALL WATER DISTRIBUTION PIPING SHALL BE INSULATED. INSULATION NOT SHOWN FOR CLARITY. SEE PLUMBING NOTES FOR INSULATION REQUIREMENTS.

**KEYED NOTES**

- P1 INCOMING UNDERGROUND WATER SERVICE (SEE SITE PLAN FOR CONTINUATION). WATER PIPING FROM THIS POINT TO CEILING PENETRATION INSIDE BUILDING SHALL BE COPPER.
- P2 COLD WATER UNDERGROUND TO YARD HYDRANT (HB-2) IN TRASH CORRAL. SEE SITE PLAN FOR CONTINUATION.
- P3 SHUT-OFF VALVE FOR RESTROOM ISOLATION. SEE VALVE SCHEDULE. ALL SHUT-OFF VALVES SHALL BE LOCATED OVER SUSPENDED CEILINGS FOR ACCESSIBILITY. DO NOT LOCATE IN AREAS WITH DRYWALL CEILINGS.
- P4 3/4" COLD WATER UP TO ROOF HYDRANT.
- P5 MIXING VALVE LOCATIONS SHOWN FOR INFORMATIONAL PURPOSES. SEE DETAIL 3 ON DRAWING P3.0 FOR MIXING VALVE INSTALLATION DETAILS.
- P6 PIPE-MOUNTED AQUASTAT TO SHUT PUMP DOWN WHEN RECIRCULATION TEMPERATURE REACHES 140°F. SEE DETAIL 6 ON DRAWING P3.0.
- P7 TIME CLOCK TO SHUT PUMP AND WATER HEATER DOWN DURING UNOCCUPIED HOURS. SEE ELECTRICAL DRAWINGS FOR WIRING DETAIL.
- P8 BALANCING VALVE FOR RECIRCULATION SYSTEM. SEE VALVE SCHEDULE. ALL BALANCING VALVES SHALL BE LOCATED OVER SUSPENDED CEILINGS FOR ACCESSIBILITY. DO NOT LOCATE IN AREAS WITH DRYWALL CEILINGS.
- P9 WATER PIPING AFTER CEILING PENETRATION CAN TRANSITION TO CPVC WHERE PERMITTED BY CODE.
- P10 PROPERLY SEAL ALL PIPE PENETRATIONS THROUGH DRAFT STOP WALL (TYP.)



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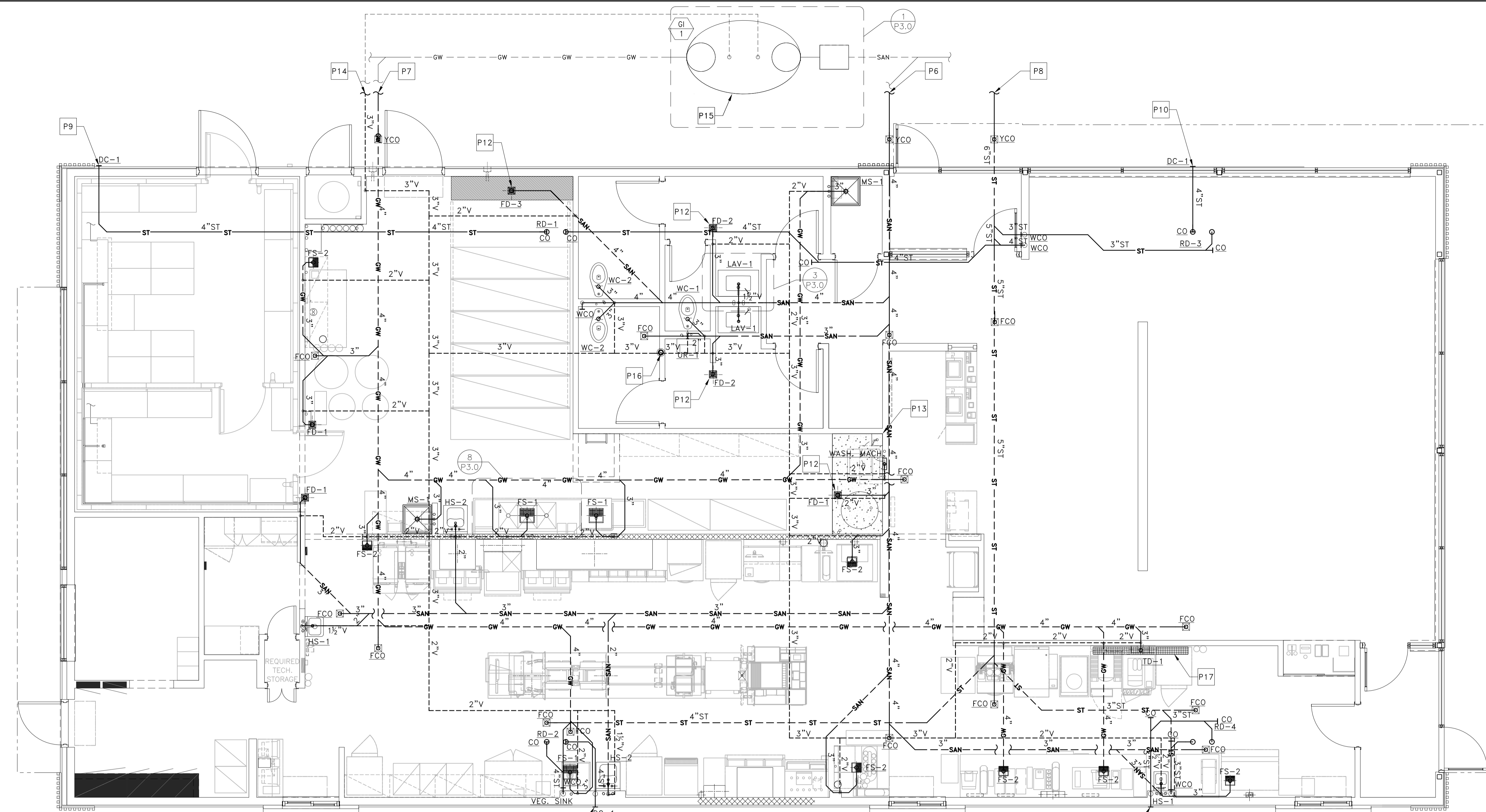
TITLE	2022 STANDARD BUILDING - BB20
SHEET NO.	4597 - WOOD/WOOD
DESCRIPTION	WOOD BEARING WALLS W/HARDBOARD SIDING WOOD ROOF TRUSS FRAMING E.L.F.S./BATTEN/HARDBOARD SIDING EXTERIOR FINISH
DRAWN BY	TP
STD. ISSUE DATE	2022-10
REVIEWED BY	DAVID M. LEFFER
DATE ISSUED	10-04-2022
SITE ADDRESS	3720 W. Sunshine
SPRINGFIELD, MO	
024-1290	
024-1290.00.0	
P1.0	
DOMESTIC WATER PIPING	



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*Kevin R. Davis* 04/25/23  
SIGNATURE DATE

PRJ2023-00032



1 WASTE, VENT & STORM PIPING  
SCALE: 1/4" = 1'-0"

PDI Method - GREASE INTERCEPTOR SIZING PER Table 8.3.2					Flow Rate GPM	
QTY.	FIXTURE	SIZE	TRAP CUBIC INCHES	CUBIC CONTENT	TOTAL TABLE I	TOTAL TABLE II
2	MS-1 - MOP SINK	24x24x10	3 IN	5760	11520	CU. IN
2	FS-2 - FLOOR SINK	8x8x6	3 IN	1540	3080	
1	VEG. SINK (3" FLOOR SINK) FS-1	18x10x8		1540	6.67	1540
1	SMOOTH MACHINE (3" FLOOR SINK) FS-2	20x18x32		11520	49.87	11520
1	ESPRESSO BREWER (3" FLOOR SINK) FS-2	24x19x15		6840	29.61	6840
1	3-COMPARTMENT SINK (3" FLOOR SINK) FS-1	16x22x14 (EACH COMP)		14784	21.33	4928
1		16x22x14		4928	21.33	4928
1		16x22x14		4928	21.33	4928
1	WASHING MACHINE (CLOTHES WASHER)		2 IN	5826	25.22	5826
1	WAREWASHER (3" FLOOR SINK) FS-1		3 IN	1540	6.67	1540
2	COMBI OVEN (3" FLOOR SINK) FS-2		3 IN	3234	14.00	3234
Total CU IN.:				59884	259.24	58344.00
59884.00 divided by 231 (1 gal = 231 cu. in.) =					GPM =	252.57
Actual drainage load (75%)				259.24 x 0.75	194.43	GAL DRAINAGE LOAD
Flow rate (2 minute drainage period)					97.21	GPM FLOW RATE
PDI size shall be the rate flow				TOTAL:	100.00	GPM (PDI SIZE)
Grease Capacity shall be twice the flow in lbs of grease.					194.43	Actual Grease Cap. Lbs
					200.00	PDI Grease Capacity Points

(\*) WAREWASHER (DISH WASHER) TO DRAIN INDIRECTLY TO 3" FLOOR SINK  
1.3 GALLONS PER CYCLE.  
1.3 x 231 = 300.3 IN<sup>3</sup>  
DEFAULT VALUE OF 1540 IN<sup>3</sup> FOR 3" FLOOR SINK USED IN PLACE OF 300.3 IN<sup>3</sup>  
MAXIMUM SANITATION WATER TEMP OF WAREWASHER = 165°F

THIS SIZING IS CALCULATED PER PDI STANDARD PDI-G101.  
1300 GALLON GREASE INTERCEPTOR HAS BEEN SELECTED PER MCDONALD'S STANDARDS.  
THIS IS OVSIZED IN COMPARISON TO THE MINIMUM REQUIRED.  
SEE P4.1 FOR GREASE INTERCEPTOR SCHEDULE, MANUFACTURER AND MODEL INFORMATION.

- ### KEYED NOTES
- P6 SANITARY LINE TO SANITARY SEWER. SEE SITE PLAN FOR CONTINUATION.
  - P7 GREASE LINE TO EXTERIOR GREASE INTERCEPTOR. SEE SITE PLAN FOR CONTINUATION
  - P8 STORM LINE TO STORM SYSTEM. SEE SITE PLAN FOR CONTINUATION.
  - P9 TERMINATE OVERFLOW DRAIN AS HIGH AS POSSIBLE WITH DOWNSPOUT COVER.
  - P10 TERMINATE OVERFLOW DRAIN ABOVE TRELLIS WITH DOWNSPOUT COVER. BOTTOM OF DOWNSPOUT OUTLET PIPE SHALL BE AT LEAST 3" BUT NOT MORE THAN 8" ABOVE TOP OF TRELLIS.
  - P11 TERMINATE BOTTOM OF OVERFLOW DRAIN A MINIMUM OF 12" ABOVE GRADE WITH DOWNSPOUT COVER.
  - P12 PROVIDE PROSET TRAP GUARD OR TRAP PRIMER FOR FLOOR DRAIN.
  - P13 TOP OF CONCRETE SLAB IS 0'-6" A.F.F.
  - P14 VENT FROM GREASE INTERCEPTOR. SEE SITE PLAN FOR CONTINUATION. COORDINATE PIPE ROUTING WITH LOCATION OF GREASE INTERCEPTOR.
  - P15 GREASE INTERCEPTOR LOCATION SHOWN FOR REFERENCE ONLY. COORDINATE GREASE INTERCEPTOR LOCATION WITH CIVIL ENGINEER AND SITE CONTRACTOR.
  - P16 4"x5" VENT THROUGH ROOF
  - P17 REFERENCE MANUFACTURER INSTALLATION GUIDE FOR LAYOUT AND SLOPING GUIDELINES PRIOR TO INSTALL AND POURING THE SLAB.

- ### DRAWING NOTES
- PIPING ROUTES ARE GENERAL AND MAY VARY DUE TO FIELD CONDITIONS. COORDINATE ALL PIPE ROUTES WITH OTHER TRADES.
  - WALL CLEAN-OUTS FOR WASTE PIPING NOT SHOWN FOR CLARITY. SEE GENERAL NOTES FOR REQUIREMENTS.
  - ONLY MAIN FLOOR CLEAN-OUTS ARE SHOWN FOR CLARITY. SEE GENERAL NOTES FOR REQUIREMENTS.
  - ALL HORIZONTAL STORM DRAINAGE PIPING SHALL BE INSULATED TO PREVENT CONDENSATION. INSULATION NOT SHOWN FOR CLARITY. SEE PLUMBING NOTES FOR INSULATION REQUIREMENTS.

### WASTE PIPE SIZING - IPC

FIXTURE TYPE	TRAP SIZE	DFU	QUANTITY	TOTAL
URINAL	2 IN.	4	1	4
WATER CLOSET	3 IN.	4	3	12
LAVATORY	1½ IN.	1	2	2
WASH SINK (HAND SINK)	1½ IN.	2	4	8
FLOOR DRAIN OR SINK	3 IN.	5	5	25
FLOOR DRAIN OR SINK	4 IN.	6	1	6
EMERGENCY FLOOR DRAIN (BATHROOMS)	3 IN.	0	2	0
TOTAL DFU				57

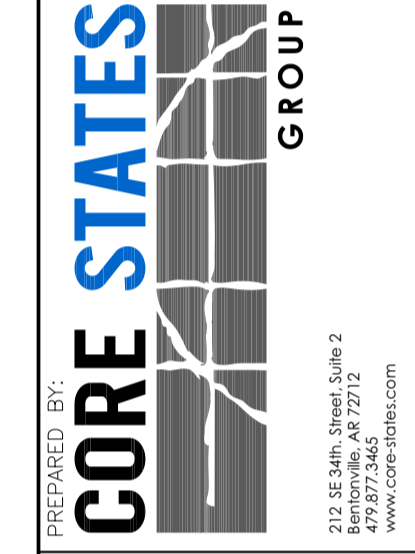
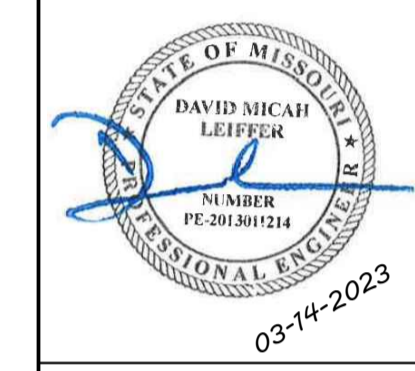
### GREASE PIPE SIZING - IPC

SERVICE SINK (MOP SINK)	TRAP SIZE	DFU	QUANTITY	TOTAL
FLOOR DRAIN OR SINK	3 IN.	3	2	6
FLOOR DRAIN OR SINK	3 IN.	5	7	35
FLOOR DRAIN OR SINK	4 IN.	6	1	6
WASHING MACHINE	2 IN.	3	1	3
TOTAL DFU				50

### STORM PIPE SIZING

RAINFALL = 3.4 IN./HR

VERTICAL LEADERS		ROOF AREA	SIZE
ROOF DRAIN			
RD-1	1,330	4	
RD-2	1,332	4	
RD-3	916	3	
RD-4	915	3	
TOTAL		4,493	
HORIZONTAL PIPING (SLOPE 1/8" PER FOOT)		ROOF AREA	SIZE
ROOF DRAIN			
RD-2 & RD-4	2,247	5	
RD-2, RD-3 & RD-4	3,163	6	
RD-1, RD-2, RD-3 & RD-4	4,493	6	



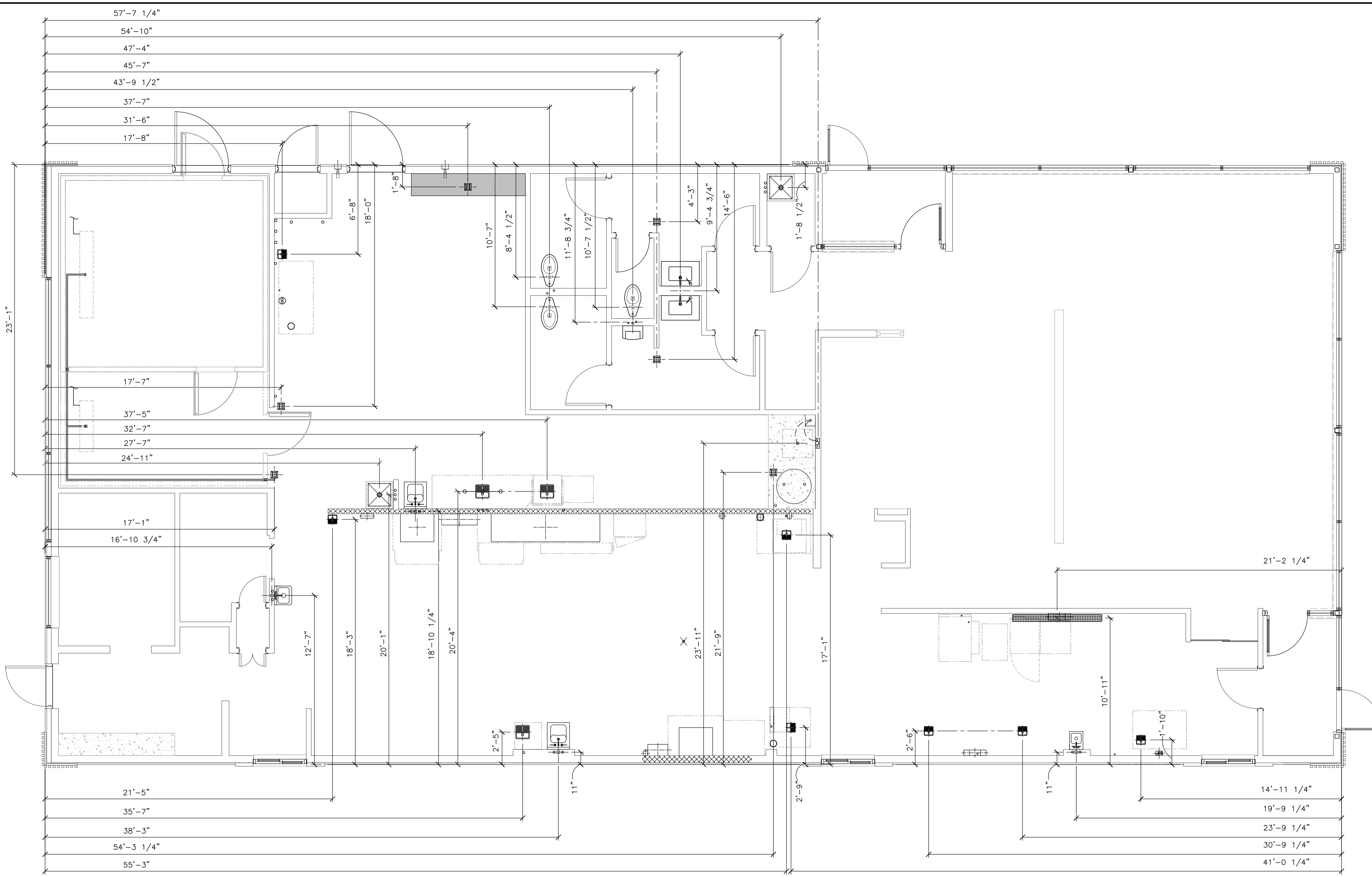
McDonald's USA, LLC  
2022 STANDARD BUILDING - BB20  
4597 - WOOD/WOOD  
DESCRIPTION: WOOD BEARING WALLS W/HARDE BOARD SIDING, WOOD ROOF TRUSS FRAMING, E.L.S./BATTEN/HARDE BOARD SIDING EXTERIOR FINISH  
SITE ADDRESS: 024-1290 3720 W Sunshine Springfield, MO  
024-1290.00.0  
P1.2  
WASTE, VENT & STORM PIPING



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*Kevin R. Davis* 04/25/23  
SIGNATURE DATE

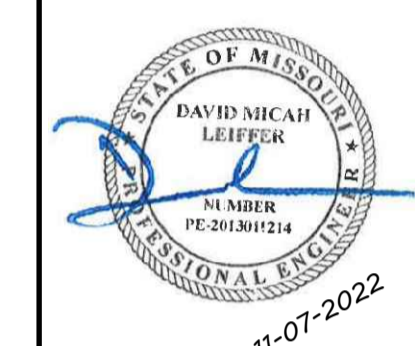
PRJ2023-00032



1 UNDERGROUND ROUGH-IN  
SCALE: 1/4" = 1'-0"

DRAWING NOTES

1. THIS PLAN IS PROVIDED AS A GUIDE FOR THE PLUMBING CONTRACTOR. ALL DIMENSIONS ARE ROUNDED TO THE NEAREST 1/4" AND ARE TAKEN FROM THE OUTSIDE EDGE OF THE FOUNDATION WALL TO CENTERLINE OF SLAB PENETRATION.



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STD. ISSUE DATE	2022-10
REVIEWED BY	DAVID M. LEFFER
DATE ISSUED	10-04-2022

TITLE	2022 STANDARD BUILDING - BB20
DESCRIPTION	4597 - WOOD/WOOD
DESCRIPTION	WOOD BEARING WALLS W/HARDE BOARD SIDING
DESCRIPTION	WOOD ROOF TRUSS FRAMING
DESCRIPTION	E.J.F.S./BATTEN/HARDE BOARD SIDING EXTERIOR FINISH
SHEET NO.	024-1290
PROJECT NO.	3720 W. Sunshine
LOCATION	Springfield, MO

024-1290.00.0  
**P1.4**  
UNDERGROUND ROUGH-IN

REV	DATE	DESCRIPTION





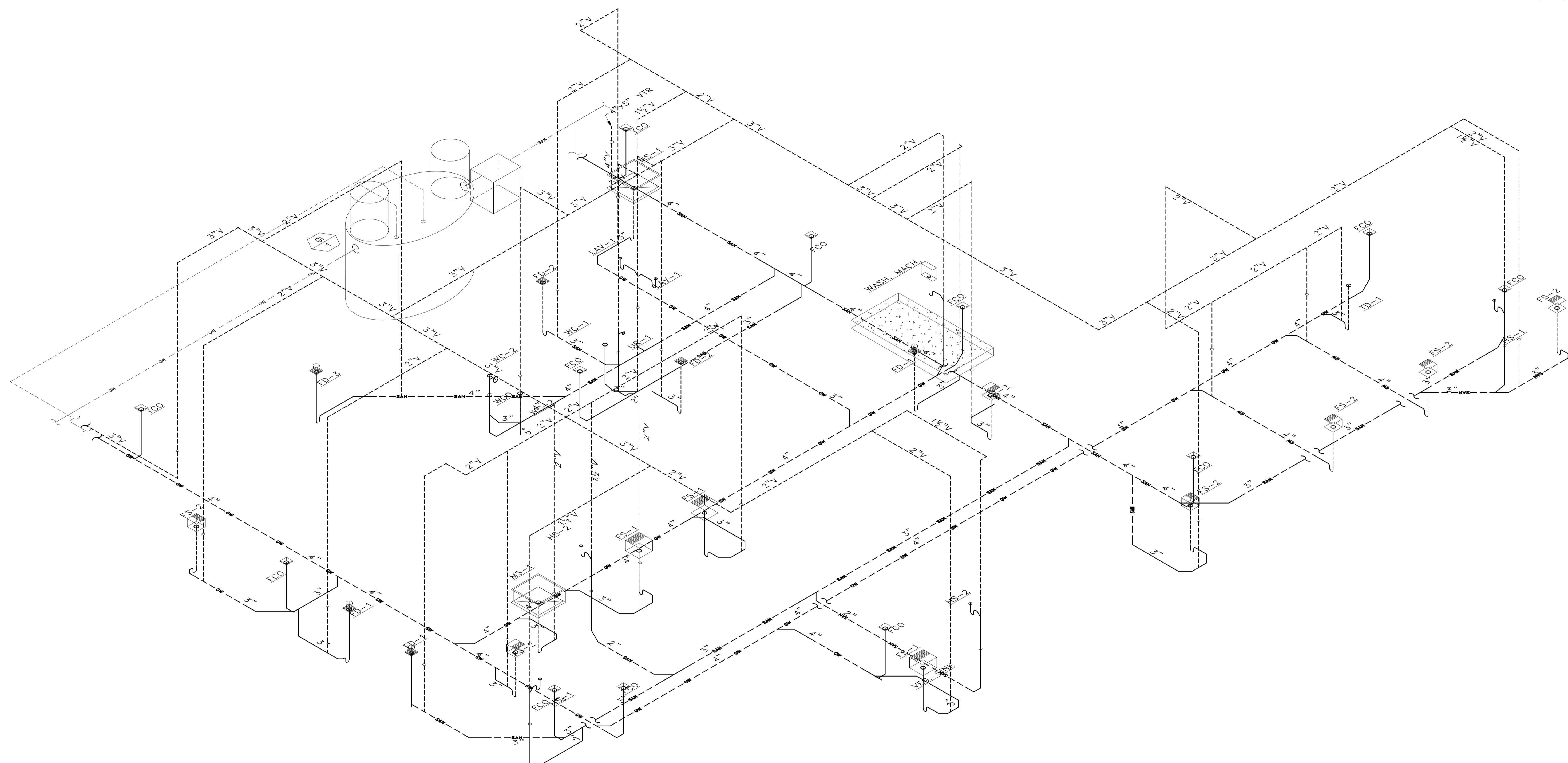




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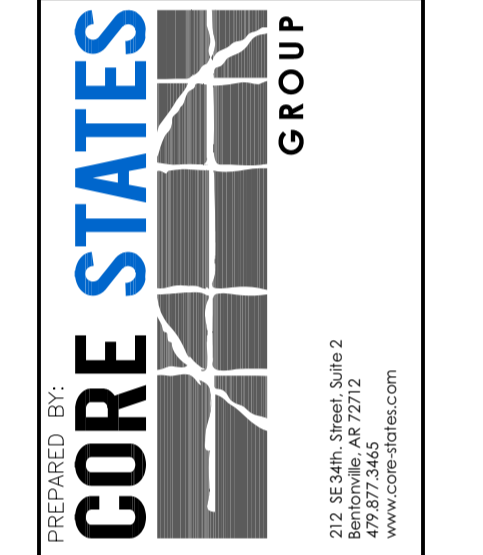
*Kevin R. Davis* 04/25/23  
SIGNATURE DATE

PRJ2023-00032



1 WASTE & VENT PIPING ISOMETRIC  
P2.1 SCALE: NONE

REV	DATE	DESCRIPTION



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TITLE	2022 STANDARD BUILDING - BB20
SHEET NO.	4597 - WOOD/WOOD
DESCRIPTION	WOOD BEARING WALLS W/HARDIE BOARD SIDING WOOD ROOF TRUSS FRAMING E.I.E.S./BATTEN/HARDIE BOARD SIDING EXTERIOR FINISH
SITE ID	024-1290
SITE ADDRESS	3720 W. Sunshine
CITY	Springfield, MO
DATE	10/04/2022
ISSUED	10/04/2022
REVIEWED BY	DAVID M. LEFFER
DATE	10/04/2022
STD. ISSUE DATE	2022-10
DRAWN BY	TP

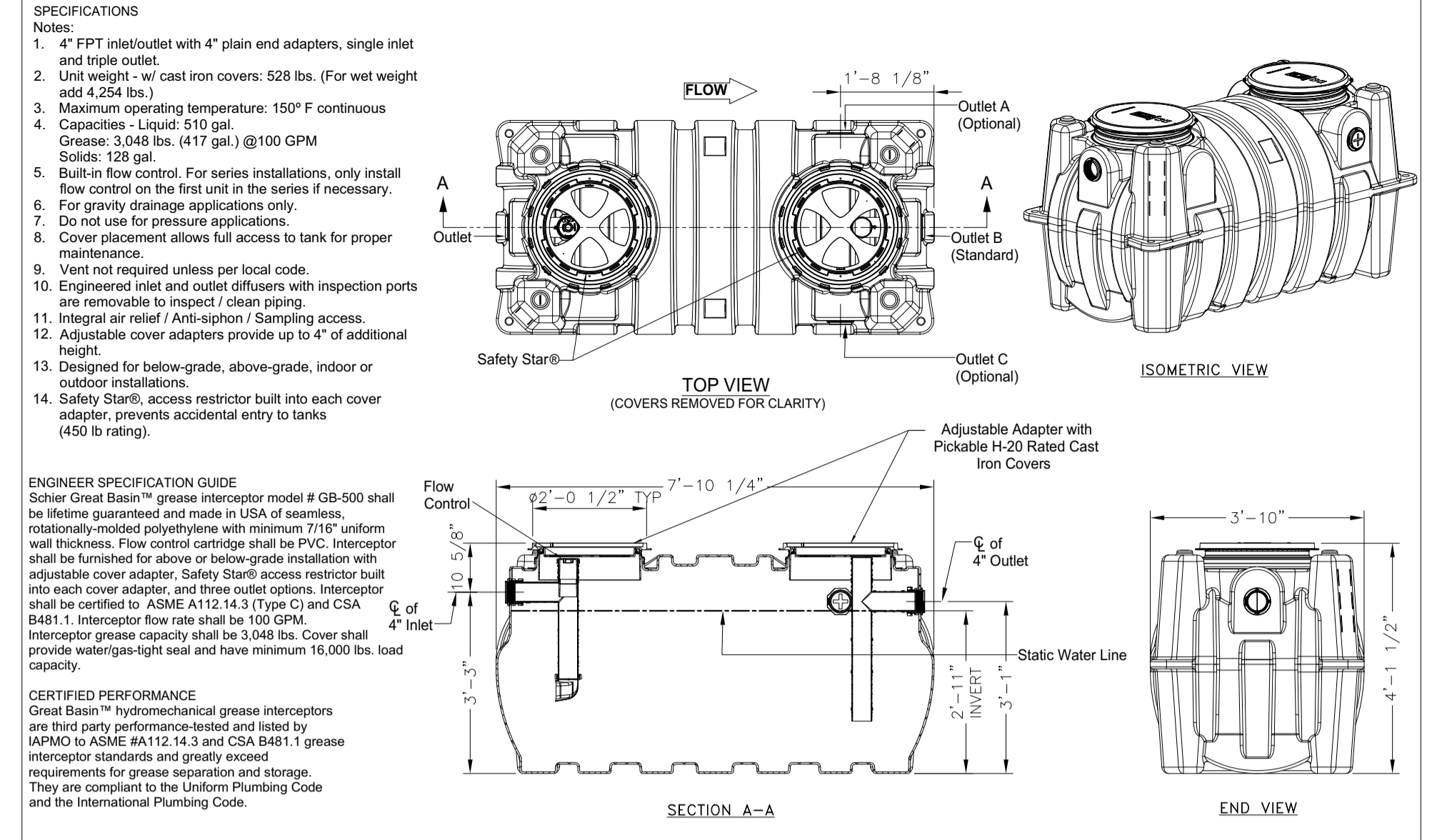
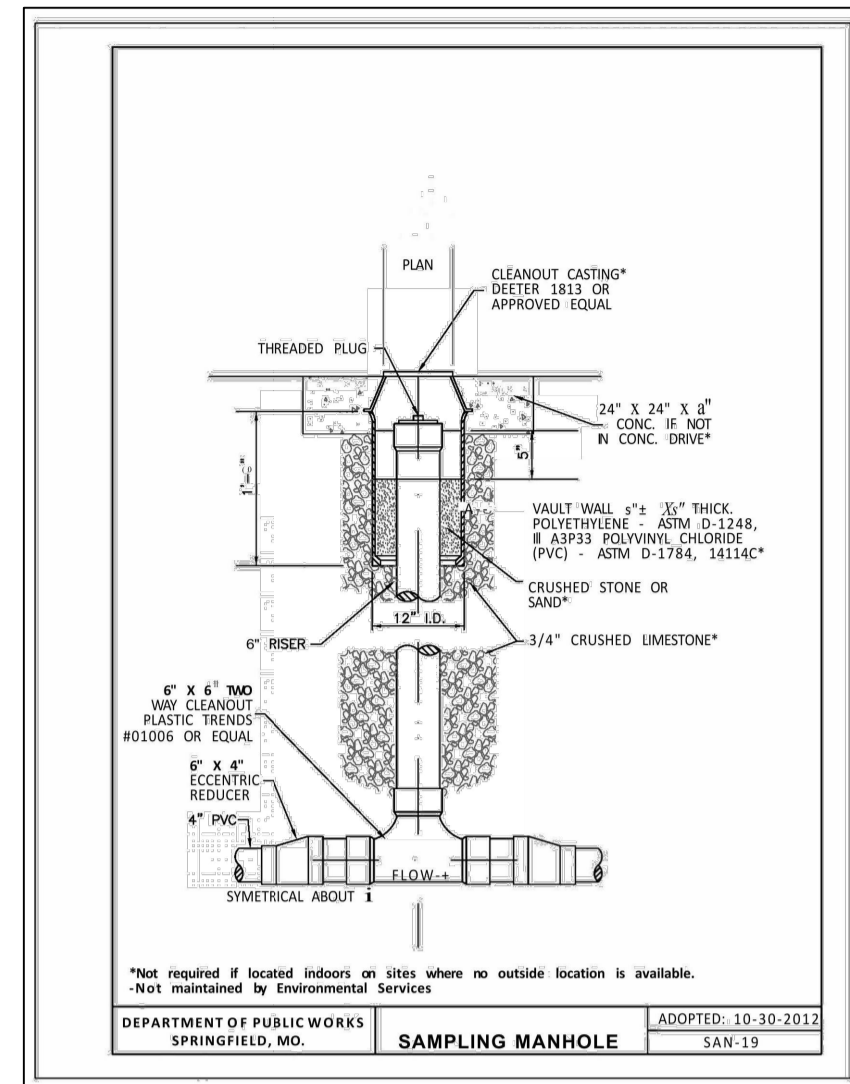






REVIEWED FOR COMPLIANCE WITH THE CITY CODE, APPLIED BUILDING CODES, ZONING ORDINANCE AND DESIGN STANDARDS. THIS REVIEW AND APPROVAL DOES NOT RELIEVE THE DEVELOPER OR HIS AGENTS OF ANY RESPONSIBILITIES OR COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OR ADDRESSES OR OVERRULE THE REQUIREMENTS OF OTHER JURISDICTIONS OR AGENCIES, UNLESS SPECIFICALLY NOTED OTHERWISE.

DATE: 04/25/23  
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PRJ2023-00032



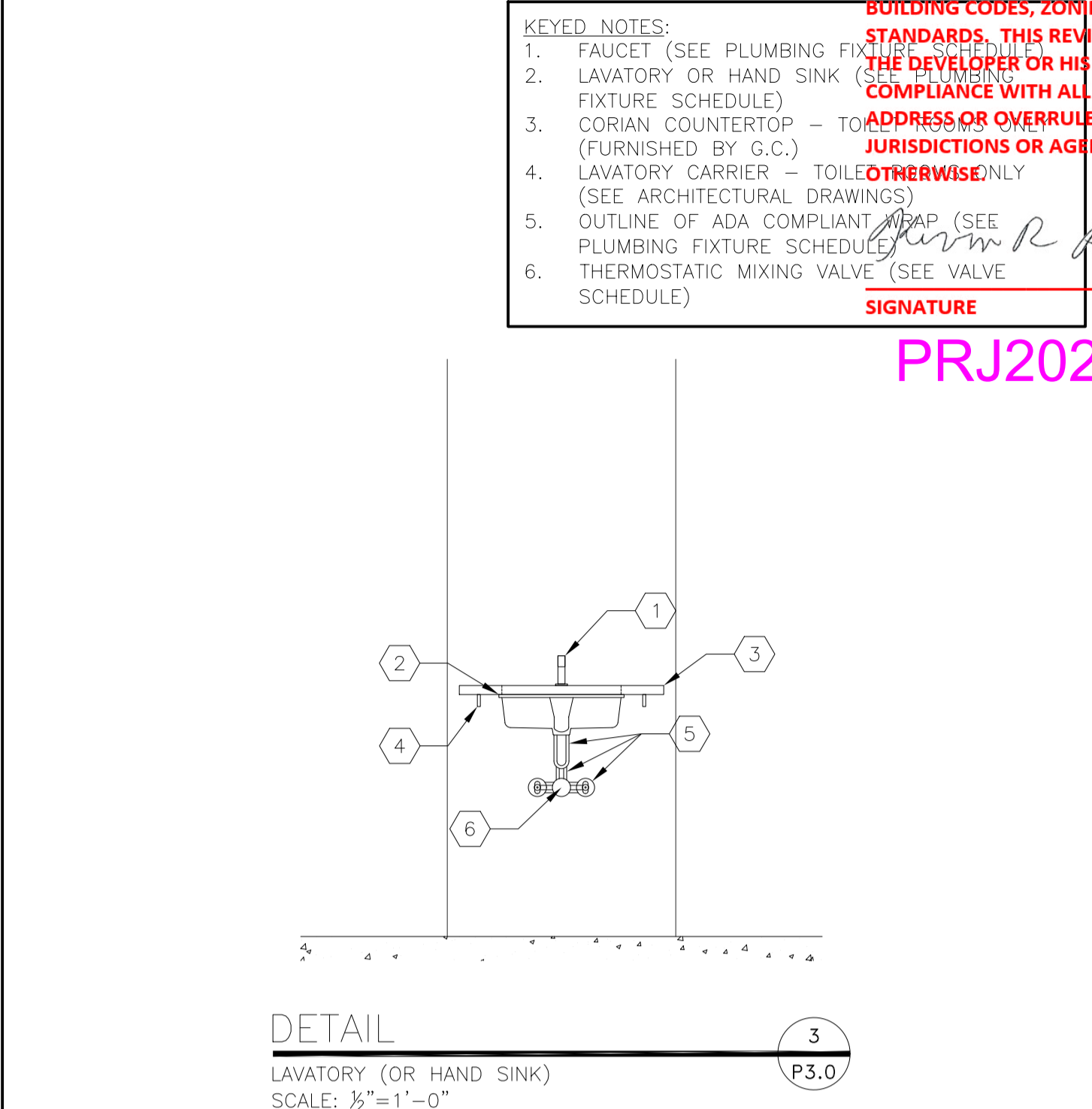
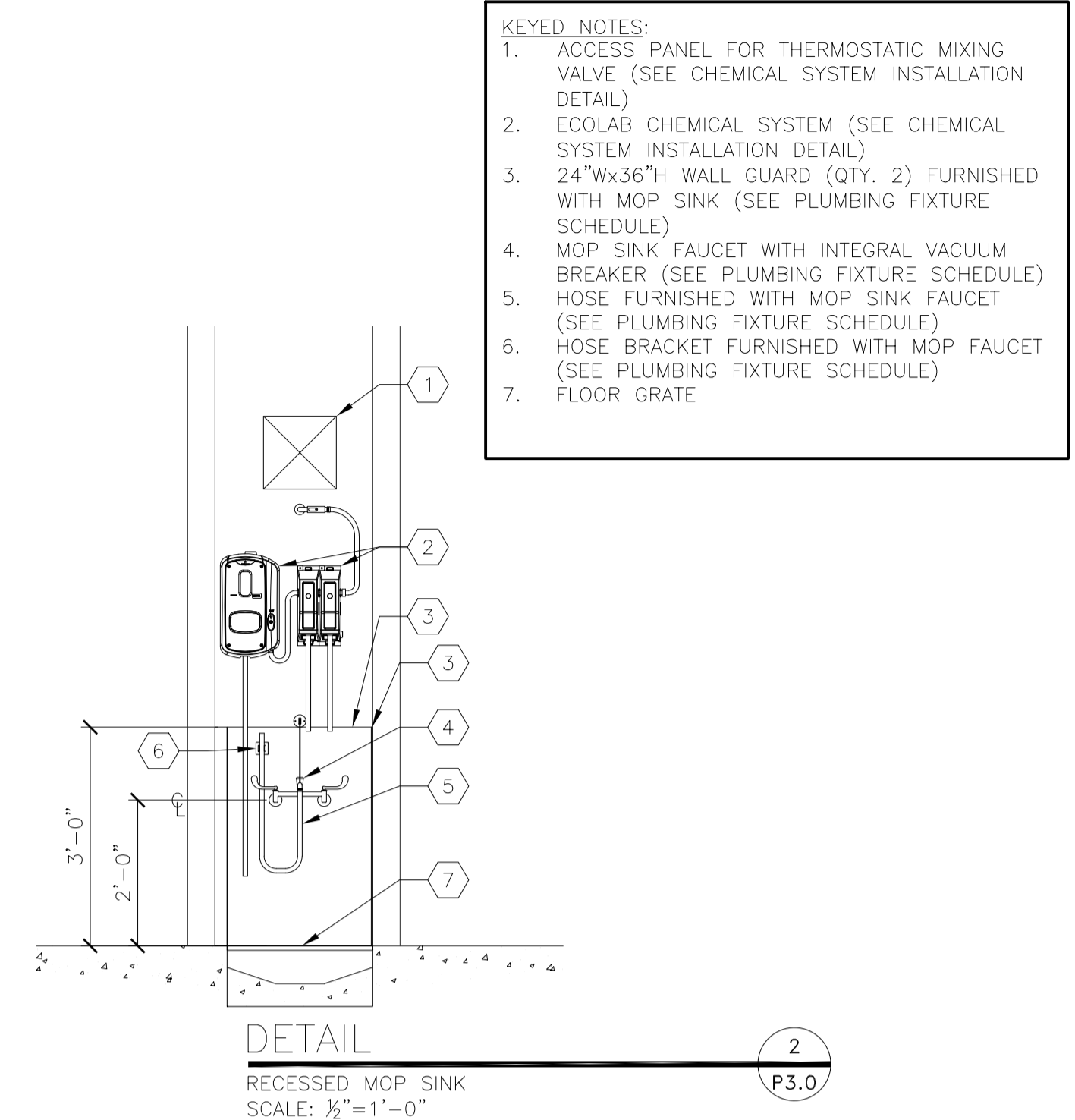
**SPECIFICATION SHEET**

MODEL NUMBER: **GB-500** PART NUMBER: 4075-001-01

DESCRIPTION: GB-500 GREASE INTERCEPTOR 100 GPM, 4\"/>

DWG BY: C. BUSENITZ DATE: 4/14/2022 REV: - ECO: -

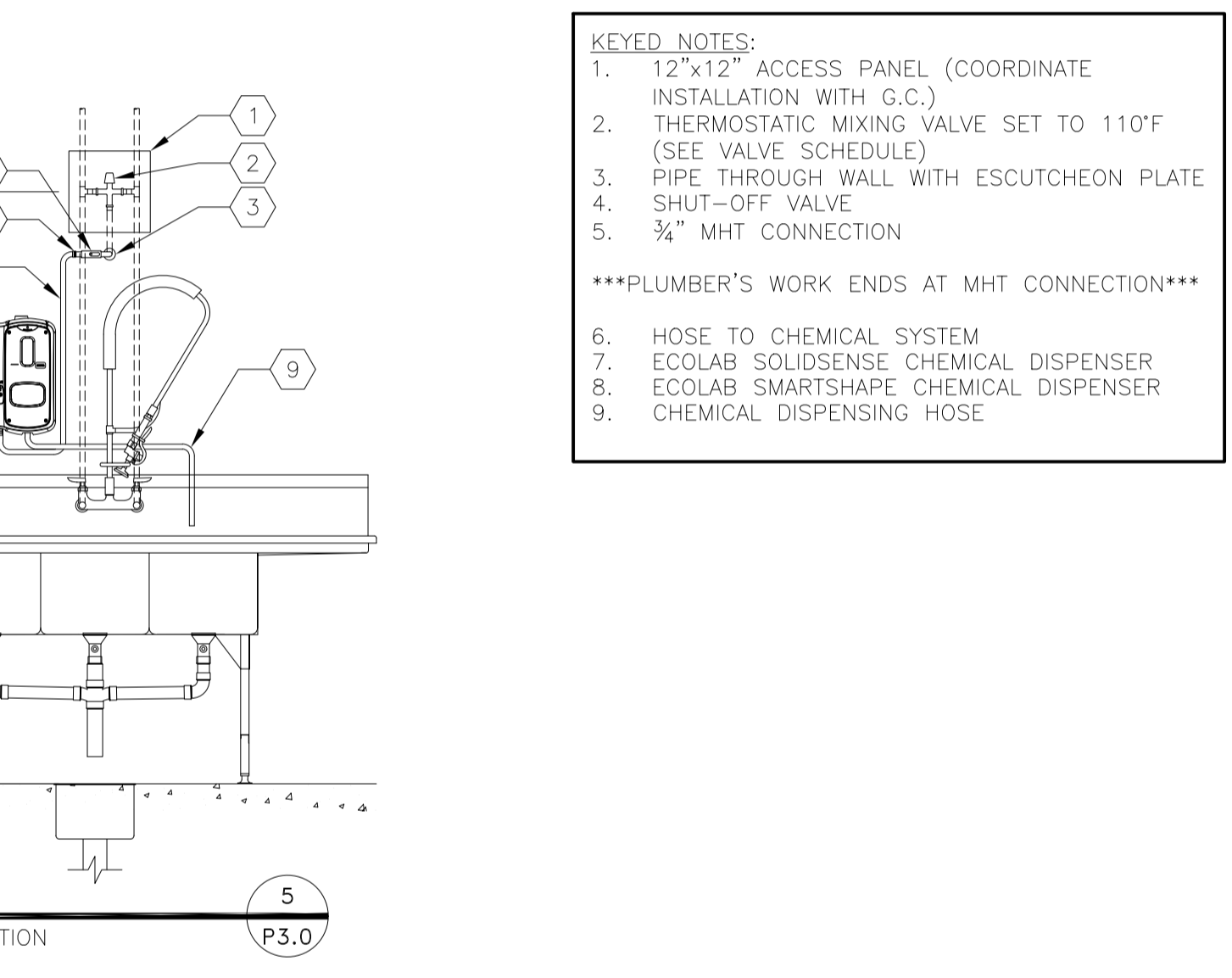
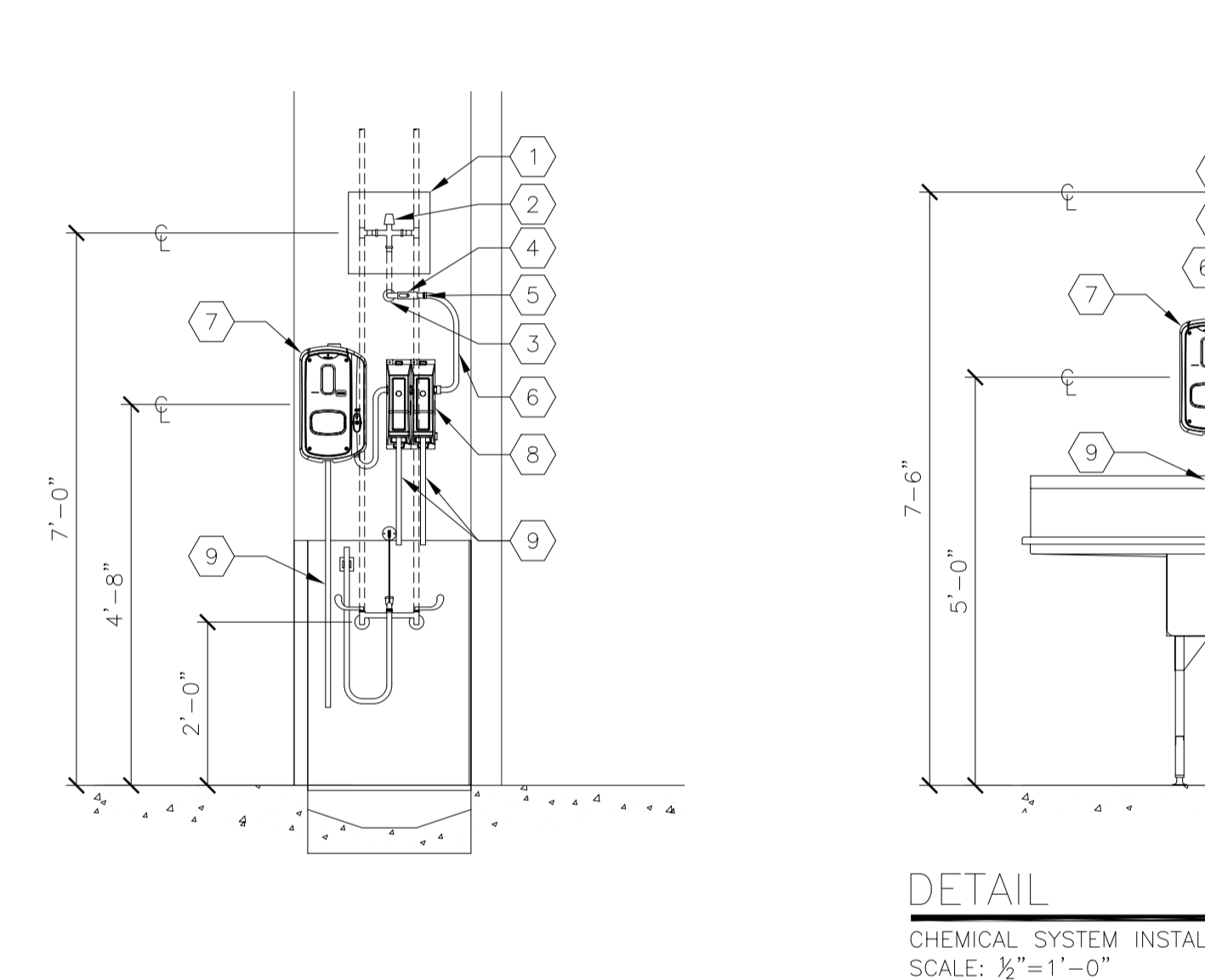
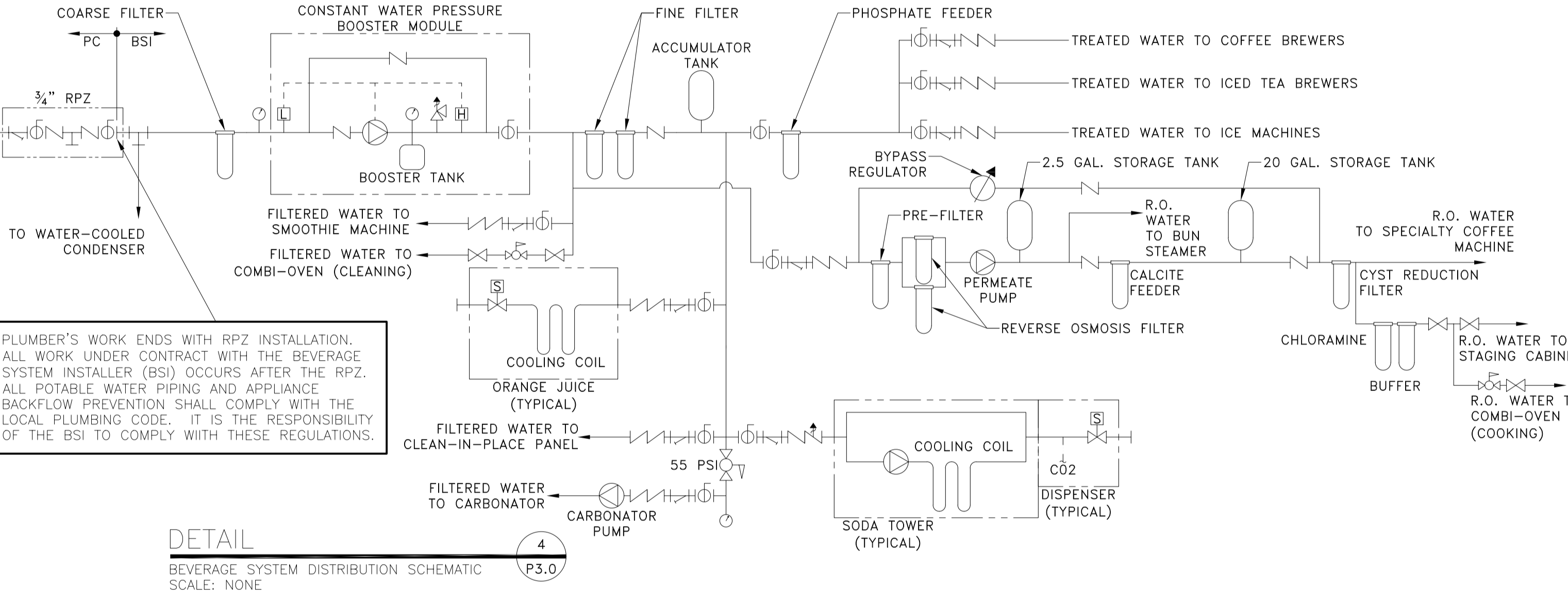
**SCHIER**  
6455 Woodland Dr  
Shawnee, KS 66218  
Tel: 913-951-3300  
Fax: 913-951-3359  
schierproducts.com



DETAIL 1  
GREASE INTERCEPTOR  
SCALE: NONE

DETAIL 2  
RECESSED MOP SINK  
SCALE: 1/2\"/>

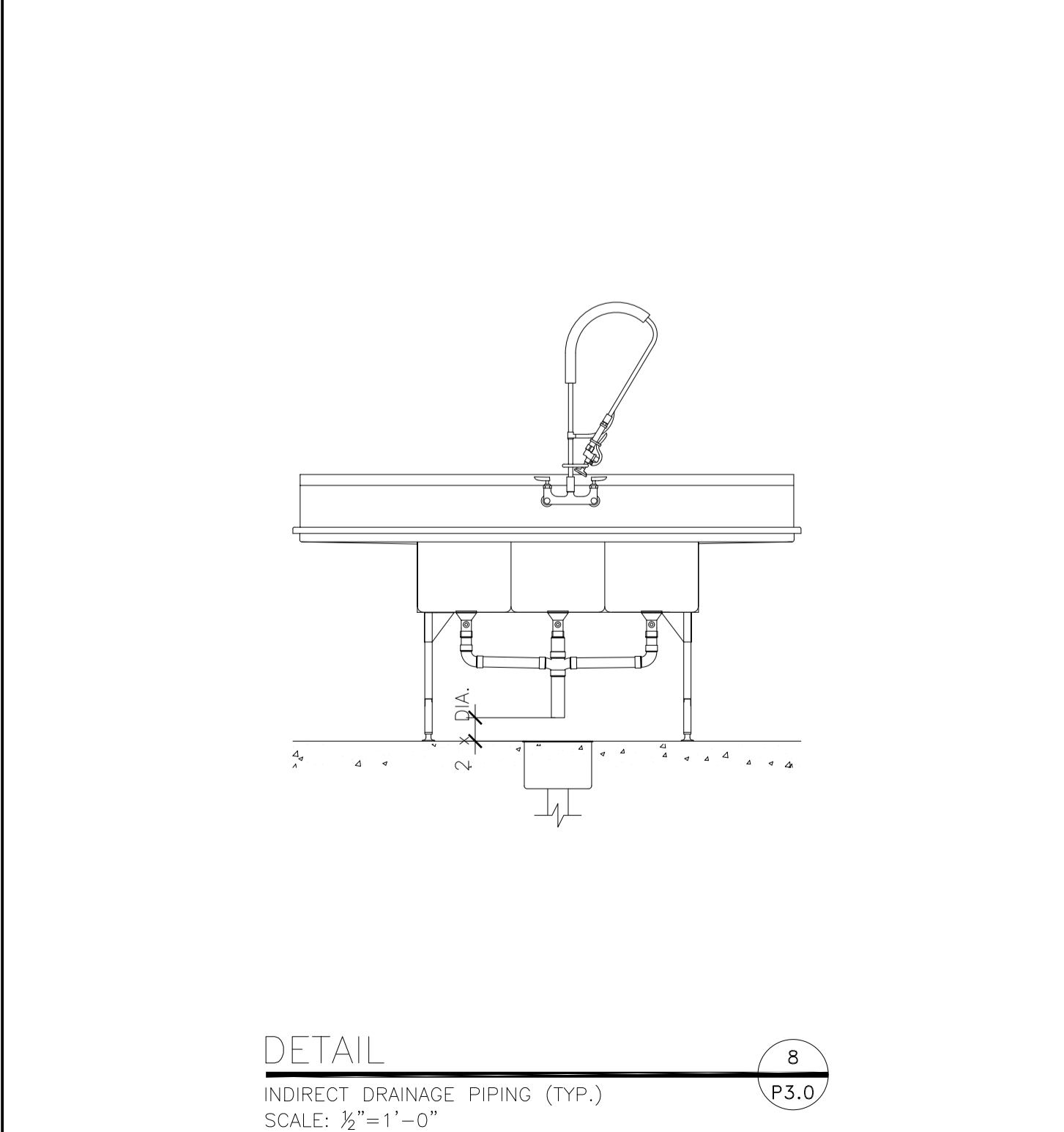
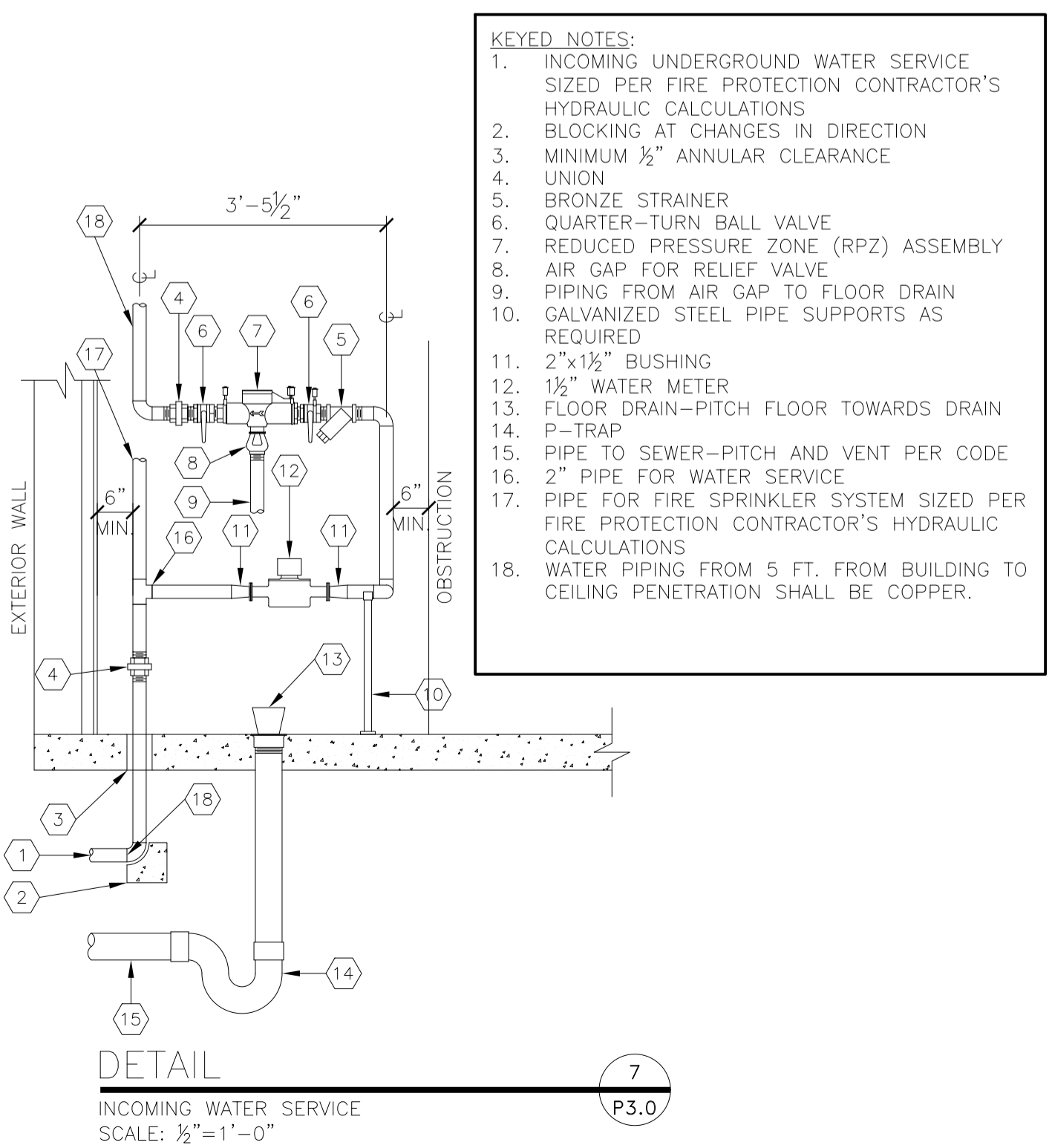
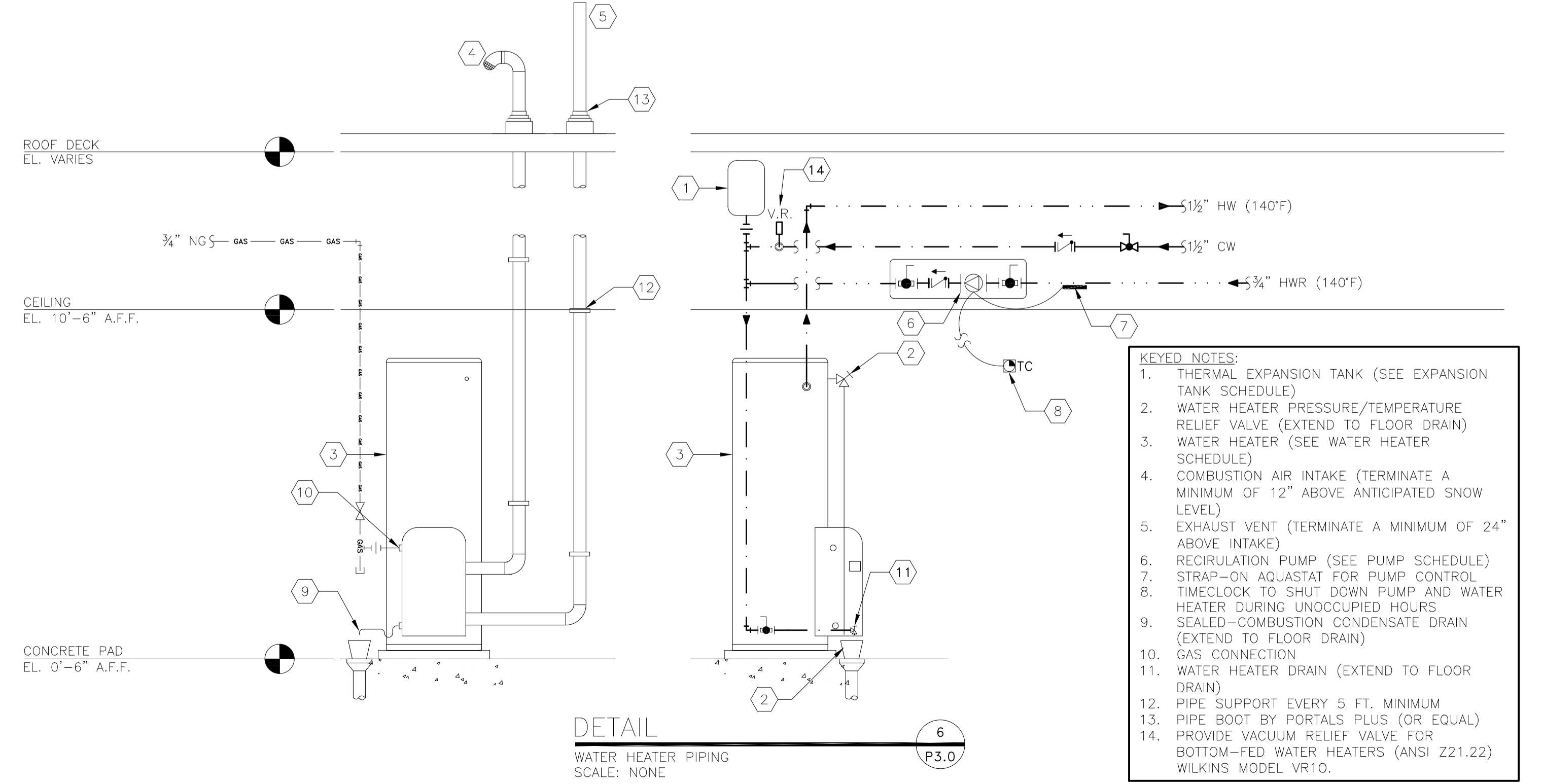
DETAIL 3  
LAVATORY (OR HAND SINK)  
SCALE: 1/2\"/>



DETAIL 4  
BEVERAGE SYSTEM DISTRIBUTION SCHEMATIC  
SCALE: NONE

DETAIL 5  
CHEMICAL SYSTEM INSTALLATION  
SCALE: 1/2\"/>

DETAIL 6  
WATER HEATER PIPING  
SCALE: NONE



DETAIL 6  
WATER HEATER PIPING  
SCALE: NONE

DETAIL 7  
INCOMING WATER SERVICE  
SCALE: 1/2\"/>

DETAIL 8  
INDIRECT DRAINAGE PIPING (TYP.)  
SCALE: 1/2\"/>

STATE OF MISSOURI  
DAVID MICHAEL LEFFLER  
PLUMBER  
PE-20181214  
03-14-2023

PREPARED BY: CORE STATES GROUP  
213 S. Main Street, Suite 101  
Springfield, MO 65801  
www.corestates.com

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DRAWN BY: TP  
DATE: 2022-10-10  
ISSUE DATE: 2022-10-10  
REVIEWED BY: DAVID M. LEFFLER  
DATE ISSUED: 10-04-2022

TITLE: 2022 STANDARD BUILDING - BB20  
DESCRIPTION: 4597 - WOOD/WOOD  
WOOD BEARING WALLS W/HARDBOARD SIDING  
WOOD ROOF TRUSS FRAMING  
E.L.F.S./BATTEN/HARDBOARD SIDING EXTERIOR FINISH

SHEET NO.: 024-1290.00.0  
**P3.0**  
DETAILS

PROJECT ADDRESS: 3720 W. Sunshine  
Springfield, MO



## GENERAL PLUMBING NOTES

**GENERAL:**

- ALL WORK PERFORMED SHALL BE IN ACCORDANCE WITH ALL LOCAL CODES AND ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION.
- ALL PLUMBING WORK SHALL BE PERFORMED BY A LICENSED PLUMBER.
- ALL DIMENSIONS, CLEARANCES AND TOLERANCES SHALL BE VERIFIED PRIOR TO INSTALLATION. ALL ROUGH-IN LOCATIONS SHALL BE COORDINATED WITH THE MANUFACTURER'S SUBMITTAL INFORMATION.
- ALL DIMENSIONAL INFORMATION IS AS FOLLOWS (UNLESS NOTED OTHERWISE):  
A. UNDERGROUND PIPE IS TO FOUNDATION  
B. OVERHEAD PIPE IS TO FINISHED WALL  
C. ELEVATIONS ARE TO FINISHED FLOOR
- ALL MATERIALS, FIXTURES AND EQUIPMENT USED SHALL BE IN ACCORDANCE WITH McDONALD'S SPECIFICATIONS. SPECIFICATIONS ARE CONTAINED WITHIN THESE DRAWINGS AND THE McDONALD'S PROJECT MANUAL. ANY CONTRACTOR IN NEED OF A COPY OF THE McDONALD'S PROJECT MANUAL SHALL CONTACT THE McDONALD'S AREA CONSTRUCTION MANAGER. ANY VARIANCE FROM THE McDONALD'S SPECIFICATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER-OF-RECORD.
- SEE COORDINATION SCHEDULE FOR ADDITIONAL SCOPE OF WORK.
- ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH ITS LISTING AND/OR THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- WHERE POOR SOIL CONDITIONS EXIST OR WHERE SUBSTANTIAL SETTLEMENT OF EITHER THE PIPING, THE BUILDING OR ADJACENT WALKS, PLANTERS, ETC., MAY OCCUR, THE CONTRACTOR SHALL PROVIDE ADEQUATE UNDERSLAB STAINLESS STEEL PIPE HANGERS OR APPROVED OTHER SUPPORT.
- ALL PIPE SLEEVES SHALL BE PROPERLY SEALED AND INSULATED TO PREVENT HEAT LOSS AND SEEPAGE.
- ALL PIPE INSULATION SHALL BE PROTECTED FROM DAMAGE FROM PIPE HANGERS. PROTECTION SHALL BE LIGHT GAUGE GALVANIZED STEEL OR EQUAL.
- ALL PENETRATIONS OF FIRE-RATED WALLS SHALL BE FIRESTOPPED WITH AN APPROVED AND LISTED FIRESTOPPING SYSTEM.

**SANITARY AND VENT SYSTEMS:**

- THE BUILDING SANITARY PIPE SHALL BE LOCATED A MINIMUM OF 5 FT. FROM THE INCOMING WATER SERVICE. WHERE A 5 FT. SEPARATION IS NOT POSSIBLE, THE BOTTOM OF THE WATER SERVICE PIPE SHALL BE A MINIMUM OF 12 IN. ABOVE THE TOP OF THE HIGHEST POINT OF THE SANITARY PIPE.
- ALL SANITARY AND VENT PIPE SHALL BE PVC TYPE DWV, ABS OR CAST-IRON WHERE REQUIRED BY CODE.
- ALL HORIZONTAL SANITARY PIPE SHALL BE INSTALLED WITH A MINIMUM PITCH AS FOLLOWS:

PIPE SIZE	MIN. SLOPE
2 1/2" OR LESS	1/4" PER FT.
3" TO 6"	3/8" PER FT.
8" OR LARGER	1/2" PER FT.

- CLEANOUTS SHALL BE INSTALLED IN ALL HORIZONTAL DRAINAGE PIPE AND SHALL BE LOCATED NOT MORE THAN 100 FT. APART.
- CLEANOUTS SHALL BE INSTALLED AT ALL CHANGES OF DIRECTION GREATER THAN 45 DEGREES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A SINGLE PIPE RUN, ONLY ONE (1) CLEANOUT SHALL BE REQUIRED FOR EVERY 40 FEET OF DEVELOPED LENGTH.
- CLEANOUTS SHALL BE INSTALLED ON PIPES PRIOR TO ANY SLAB PENETRATION.
- WHERE PIPING IS LOCATED WITHIN WALL CAVITIES, ACCESS TO THE CLEANOUTS SHALL BE PROVIDED.
- CLEANOUTS ON 6-IN. AND SMALLER PIPES SHALL BE PROVIDED WITH A CLEARANCE OF NOT LESS THAN 18 IN. CLEANOUTS ON 8-IN. AND LARGER PIPE SHALL BE PROVIDED WITH A CLEARANCE OF NOT LESS THAN 36 IN.
- ALL SUSPENDED SANITARY AND VENT PIPE SHALL BE SUPPORTED AS FOLLOWS:

MATERIAL	MAX. HORIZ. SPACING	MAX. VERT. SPACING
ABS	4 FT.	10 FT.
PVC (TYPE DWV)	4 FT.	10 FT.
CAST-IRON (<10 FT. PIPE SECTIONS)	5 FT.	15 FT.
CAST-IRON (10 FT. PIPE SECTIONS)	10 FT.	15 FT.

- ALL PLUMBING FIXTURES SHALL BE VENTED AND THE MAXIMUM DISTANCE FROM THE FIXTURE TRAP TO THE VENT SHALL BE AS FOLLOWS:

TRAP SIZE	SLOPE	DISTANCE
1 1/2"	1/4" PER FT.	2'-6"
1 1/2"	1/4" PER FT.	3'-6"
2"	1/4" PER FT.	5'-0"
3"	3/8" PER FT.	6'-0"
4" & LARGER	1/2" PER FT.	10'-0"

- ALL PLUMBING VENTS THROUGH THE ROOF SHALL TERMINATE A MINIMUM OF 12 INCHES ABOVE THE ROOF AND SHALL BE LOCATED A MINIMUM OF 8 FT. FROM ANY PARAPET WALL. WHERE A VENT TERMINATES WITHIN 8 FT. OF A PARAPET WALL, THE VENT SHALL TERMINATE A MINIMUM OF 6 INCHES ABOVE THE PARAPET.
- ALL PLUMBING VENTS SHALL TERMINATE A MINIMUM OF 10 FT. HORIZONTALLY FROM ANY OUTDOOR AIR INTAKE. WHERE A PLUMBING VENT IS LOCATED WITHIN 10 FT. OF AN INTAKE, THE VENT SHALL TERMINATE A MINIMUM OF 2 FT. ABOVE THE INTAKE.
- ALL SIDE WALL VENT TERMINATIONS SHALL BE PROTECTED TO PREVENT BIRDS OR RODENTS FROM ENTERING OR BLOCKING THE VENT OPENING.
- ALL FLOOR DRAINS THAT DO NOT SERVE EQUIPMENT SHALL BE PROTECTED AGAINST DRYING OUT EITHER THROUGH THE INSTALLATION OF A TRAP PRIMER, DEEP SEAL TRAP OR PROSET TRAP GUARD.
- ALL APPLIANCES SHALL DRAIN TO AN APPROVED SANITARY WASTE RECEPTOR (FLOOR SINK OR FLOOR DRAIN WITH FUNNEL). INDIRECT DRAINAGE FROM AN APPLIANCE SHALL MAINTAIN AN AIR GAP BETWEEN THE PIPE OUTLET AND THE TOP OF THE RECEPTOR. THE MINIMUM DISTANCE BETWEEN THE PIPE OUTLET AND THE TOP OF THE RECEPTOR SHALL BE TWICE THE DIAMETER OF THE APPLIANCE DRAIN PIPE.

**GREASE INTERCEPTORS:**

- SEE SITE PLAN FOR THE SIZE AND LOCATION OF THE GREASE INTERCEPTOR.
- THE GREASE INTERCEPTOR SHALL BE INSTALLED IN A LOCATION THAT IS ACCESSIBLE FOR PUMPING.
- THE GREASE INTERCEPTOR SHALL BE CONSTRUCTED OF FIBERGLASS OR ROTATIONALLY-MOLDED POLYETHYLENE. GREASE INTERCEPTOR CONSTRUCTION SHALL CONFORM TO ALL LOCAL CODES.
- GREASE INTERCEPTORS SHALL BE GRAVITY OR HYDROMECHANICAL TYPE, SIZED FOR THE APPLICATION LISTED.
- THE GREASE INTERCEPTOR SHALL BE VENTED, OR AS REQUIRED, IN ACCORDANCE WITH THE LOCAL CODE OR THE MANUFACTURER'S REQUIREMENTS

AND SPECIFICATIONS.

- ACCESS TO THE GREASE INTERCEPTOR SHALL BE PROVIDED WITH TWO (2) 24-IN. MANHOLES. COVER SHALL PROVIDE WATER/GAS-TIGHT SEAL AND HAVE A MINIMUM 16,000 LBS. LOAD CAPACITY. ALL SURFACE WATER MUST DRAIN AWAY FROM MANHOLES.
- PIPING INLET AND OUTLET SIDES SHALL BE CLEARLY LABELED ON THE TOP OF THE GREASE INTERCEPTOR TO INSURE PROPER INSTALLATION.

**DOMESTIC SUPPLY SYSTEMS:**

- THE INCOMING WATER SERVICE PIPE SHALL BE LOCATED A MINIMUM OF 5 FT. FROM THE EXITING SANITARY PIPE. WHERE A 5 FT. SEPARATION IS NOT POSSIBLE, THE BOTTOM OF THE WATER SERVICE PIPE SHALL BE A MINIMUM OF 12 IN. ABOVE THE TOP OF THE HIGHEST POINT OF THE SANITARY PIPE.
- ALL UNDERGROUND SITE PLUMBING SHALL CONFORM TO NSF 61, SHALL BE TYPE K COPPER TUBING OR COPPER PIPE, POLYETHYLENE (PE) OR CPVC. IF CPVC IS USED, FOAM INSULATION SHALL BE INSTALLED AT ALL CHANGES OF DIRECTION TO ACCOUNT FOR EXPANSION AND CONTRACTION.
- INCOMING WATER SERVICE PRESSURE SHOULD BE BETWEEN 45 AND 55 PSI STATIC. WHERE WATER PRESSURE SERVICE EXCEEDS 80 PSI STATIC, AN APPROVED WATER-PRESSURE REDUCING VALVE WITH STRAINER CONFORMING TO ASSE 1003 SHALL BE INSTALLED. WHERE INCOMING WATER PRESSURE IS BELOW 45 PSI STATIC, A PRESSURE BOOSTER SYSTEM SHALL BE INSTALLED.
- IF THE RESTAURANT HAS A COMBINED WATER AND FIRE SPRINKLER SERVICE, THE INCOMING WATER SERVICE SHALL BE SIZED BASED ON THE FIRE SPRINKLER CONTRACTOR'S HYDRAULIC CALCULATIONS.
- PROVIDE A MINIMUM 1/2" ANNULAR CLEARANCE AROUND ALL PIPE SLAB PENETRATIONS.
- A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER (RPZ) SHALL BE INSTALLED AT THE INCOMING SERVICE WHERE REQUIRED BY CODE.
- AN EXPANSION TANK SHALL BE INSTALLED ON THE COLD WATER LINE INLET TO THE WATER HEATER. SEE EXPANSION TANK SCHEDULE.
- ALL WATER SUPPLY PIPE WITHIN 5 FT. OF THE BUILDING AND INSIDE THE BUILDING SHALL COMPLY WITH NSF 61 AND SHALL BE TYPE L COPPER TUBING, COPPER PIPE OR CPVC PIPE.
- CPVC PIPE SHALL BE FLOWGUARD GOLD OR FLOWGUARD BENDABLE AS MANUFACTURED BY LUBRIZOL.
- CPVC PIPE SHALL BE CONNECTED WITH FLOWGUARD GOLD YELLOW LOW-VOC SOLVENT CEMENT AS MANUFACTURED BY IPS WELD-ON OR OATEY.
- ALL CPVC PIPE SHALL BE INSULATED TO PREVENT EXPOSURE TO GREASE.
- ALL SUSPENDED PIPE SHALL BE SUPPORTED AS FOLLOWS:

MATERIAL	MAX. HORIZ. SPACING	MAX. VERT. SPACING
COPPER PIPE	12 FT.	10 FT.
COPPER TUBING ≤ 1 1/2"	6 FT.	10 FT.
COPPER TUBING > 1 1/2"	10 FT.	10 FT.
CPVC ≤ 1"	3 FT.	10 FT.
CPVC ≥ 1 1/2"	4 FT.	10 FT.

- A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER (RPZ) SHALL BE INSTALLED AT THE INLET TO THE WATER FILTRATION SYSTEM. ALL PIPING DOWNSTREAM OF THE RPZ SHALL BE COPPER OR CROSS-LINKED POLYETHYLENE (PEX).
- ALL DEVICES, APPLIANCES, AND APPARATUS INTENDED TO SERVE SOME SPECIAL FUNCTION SHALL BE PROVIDED WITH PROTECTION AGAINST BACKFLOW AND CONTAMINATION OF THE WATER SUPPLY SYSTEM. ALL BACKFLOW PREVENTION DEVICES SHALL BE ASSE LISTED AND APPROVED FOR THE DEVICE OR APPLIANCE THEY SERVE.
- ALL WATER SUPPLY LINES SHALL BE PROVIDED WITH A QUARTER-TURN SHUT-OFF VALVE BEFORE FINAL CONNECTION TO EQUIPMENT.
- QUARTER-TURN SHUT-OFF VALVES SHALL BE INSTALLED UPSTREAM OF ANY INLINE BACKFLOW PREVENTION DEVICE.
- ALL VALVES AND BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED WITH FITTINGS THAT FACILITATE REMOVAL IN CASE OF FAILURE.
- ALL OVERHEAD WATER LINES SHALL BE INSULATED WITH 1" THICK EXTERNAL JACKETED INSULATION AND A MINIMUM INSTALLED R-VALUE OF 3.7.
- PRIOR TO BUILDING TURNOVER, THE DOMESTIC WATER SUPPLY SYSTEM SHALL BE PURGED OF DELETERIOUS MATERIAL AND DISINFECTED. DISINFECTION SHALL BE DONE IN ACCORDANCE WITH THE LOCAL HEALTH CODE, PLUMBING CODE OR IN ACCORDANCE WITH AWWA C651 OR AWWA C652.

**STORM DRAINAGE SYSTEMS:**

- ALL ROOF DRAINS SHALL BE SIZED IN ACCORDANCE WITH LOCAL CODES AND SHALL CONFORM TO ASME A112.21.2M OR A112.3.1.
- ALL STORM DRAINAGE PIPING SHALL BE ABS, PVC TYPE DWV OR CAST-IRON WHERE REQUIRED BY CODE.
- ALL SUSPENDED STORM DRAINAGE PIPE SUPPORT REQUIREMENTS SHALL BE THE SAME AS THE SANITARY AND VENT REQUIREMENTS.
- ALL HORIZONTAL STORM DRAINAGE PIPE PITCH REQUIREMENTS SHALL BE THE SAME AS THE SANITARY AND VENT REQUIREMENTS.
- ALL HORIZONTAL STORM DRAINAGE PIPE SHALL BE INSULATED WITH 1" THICK EXTERNAL JACKETED INSULATION AND A MINIMUM INSTALLED R-VALUE OF 3.7 TO PROTECT AGAINST CONDENSATION.
- CLEANOUTS SHALL BE INSTALLED IN ALL HORIZONTAL DRAINAGE PIPE AND SHALL BE LOCATED NOT MORE THAN 100 FT. APART.
- CLEANOUTS SHALL BE INSTALLED AT ALL CHANGES OF DIRECTION GREATER THAN 45 DEGREES. WHERE MORE THAN ONE CHANGE OF DIRECTION OCCURS IN A SINGLE PIPE RUN, ONLY ONE (1) CLEANOUT SHALL BE REQUIRED FOR EVERY 40 FEET OF DEVELOPED LENGTH.
- CLEANOUTS SHALL BE INSTALLED ON PIPES PRIOR TO ANY SLAB PENETRATION.
- WHERE PIPING IS LOCATED WITHIN WALL CAVITIES, ACCESS TO THE CLEANOUTS SHALL BE PROVIDED.
- ROOF DRAINS AND OVERFLOW ROOF DRAINS SHALL BE PIPED INDEPENDENTLY. OVERFLOW ROOF DRAINS SHALL NOT BE CONNECTED TO THE PRIMARY ROOF DRAINAGE SYSTEM.

## LEGEND

---	COLD WATER PIPING
----	TEMPERED WATER PIPING (110°F)
----	HOT WATER PIPING (140°F)
----	RECIRCULATED HOT WATER PIPING
----	OVERHEAD LINES (BY P.C.)
---SAN---	UNDERGROUND SANITARY PIPING
---GW---	UNDERGROUND GREASE WASTE PIPING
-----	VENT PIPING
---ST---	ABOVE GROUND STORM PIPING
---st---	UNDERGROUND STORM PIPING
⊕	HOSE BIBB
↕	CHECK VALVE
⊘	BALL VALVE
⊗	THERMOSTATIC MIXING VALVE
⊠	FLOOR DRAIN
⊡	CLEAN-OUT (FLOOR OR YARD)
⊞	FLOOR SINK
⊙	PRESSURE GAUGE
⊠	LOW PRESSURE SWITCH
⊞	HIGH PRESSURE SWITCH
⊞	SOLENOID VALVE
⊞	THREE-WAY VALVE
⊞	PRESSURE REGULATOR
↕	DUAL CHECK VALVE OR RPZ
↕	DUAL CHECK VALVE WITH ATMOSPHERIC VENT
⊞	STRAINER
⊞	RELIEF VENT
	O/O
	OH
	P
	PC
	RC
	RPZ
	SS
	ST
	SVB
	TAB
	UG
	UR
	V
	WC
	WCO
	WSFU
	YC

## ABBREVIATIONS

ACM	AREA CONSTRUCTION
AVB	ATMOSPHERIC VENT
BSI	BEVERAGE SYSTEM INSTALLER
CO	CLEAN-OUT
DC	DOWNSPOUT COVER
DFU	DRAINAGE FIXTURE UNIT(S)
EC	ELECTRICAL CONTRACTOR
FAC	FIRE ALARM CONTRACTOR
FCO	FLOOR CLEAN-OUT
FD	FLOOR DRAIN
FPC	FIRE PROTECTION CONTRACTOR
FS	FLOOR SINK
GC	GENERAL CONTRACTOR
GI	GREASE INTERCEPTOR
GPF	GALLONS PER FLUSH
GPM	GALLONS PER MINUTE
GW	GREASE WASTE
HS	HAND SINK
I.P.S.	IRON PIPE SIZE (ALSO NPS)
KEI	KITCHEN EQUIPMENT INSTALLER
KES	KITCHEN EQUIPMENT SUPPLIER
LAV	LAVATORY
MC	MECHANICAL CONTRACTOR
MHT	MALE HOSE THREADS
MS	MOP SINK
NPS	NATIONAL PIPE THREAD STANDARD
NPT	NATIONAL PIPE THREAD TAPERED
O/O	OWNER/OPERATOR
OH	OVERHEAD
P	PUMP
PC	PLUMBING CONTRACTOR
RC	REFRIGERATION CONTRACTOR
RPZ	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
SS	SANITARY SEWER
ST	STORM SEWER
SVB	ANTI-SIPHON, SPILL RESISTANT VACUUM BREAKER
TAB	TEST AND BALANCE CONTRACTOR
UG	UNDERGROUND
UR	URINAL
V	VENT
WC	WATER CLOSET
WCO	WALL CLEAN-OUT
WSFU	WATER SUPPLY FIXTURE UNIT(S)
YC	YARD CLEAN-OUT

REVIEWED FOR COMPLIANCE WITH THE CITY CODE, ADOPTED LOCAL ORDINANCES, ZONING ORDINANCE AND DESIGN STANDARDS. THIS REVIEW AND APPROVAL DOES NOT RELIEVE THE DEVELOPER OR HIS AGENTS OF ANY RESPONSIBILITY FOR COMPLIANCE WITH ALL APPLICABLE REQUIREMENTS OR ADDRESS OR OVERRULE THE REQUIREMENTS OF OTHER JURISDICTIONS OR AGENCIES, UNLESS SPECIFICALLY NOTED OTHERWISE.

DATE: 04/25/23  
SIGNATURE: [Signature]  
DATE: 04/25/23

PRJ2023-00032



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TITLE: 2022 STANDARD BUILDING - BB20  
4-597 - WOOD/WOOD  
DESCRIPTION: WOOD BEARING WALLS W/HARDBOARD SIDING  
WOOD ROOF TRUSS FRAMING  
E.I.F.S./BATTEN/HARDBOARD SIDING EXTERIOR FINISH  
SITE ID: 024-1290.00.0  
024-1290  
3720 W. Sunshine  
Springfield, MO

SHEET NO. P4.0  
GENERAL NOTES



COORDINATION SCHEDULE

Table with columns: GENERAL REQUIREMENTS, FURNISH, INSTALL, FINAL CONNECTION, NOTES. Includes sections for CONTRACTOR COORDINATION REQUIREMENTS, PLUMBING SYSTEMS, KITCHEN EQUIPMENT, and MISCELLANEOUS ITEMS.

- NOTES: 1. THIS SCHEDULE IS INTENDED AS A GUIDE FOR THE WORK TO BE PERFORMED. ALL WORK SHALL BE COORDINATED BETWEEN THE McDONALD'S AREA CONSTRUCTION MANAGER AND ALL GC AND O/O SUBCONTRACTORS. 2. ONE (1) COPY OF THE DECOR PACKAGE DRAWINGS SHALL BE SUPPLIED TO THE GENERAL CONTRACTOR AND EACH OF THE SUBCONTRACTORS. IT SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND THE SUBCONTRACTORS TO INSURE THAT THEY HAVE RECEIVED THE DECOR PACKAGE DRAWINGS. 3. FOR ANY WORK NOT CLARIFIED IN THIS SCHEDULE OR IN THE NOTES AND SPECIFICATIONS, PLEASE CONSULT THE McDONALD'S CONSTRUCTION MANAGER FOR SCOPE OF WORK. 4. ALL ROOFTOP UNIT EQUIPMENT SUPPLIED BY THE MECHANICAL CONTRACTOR AND THE KITCHEN EQUIPMENT SUPPLIER SHALL BE ON SITE AT THE SAME TIME FOR A SINGLE CRANE LIFT. EQUIPMENT SITE ARRIVAL DATE SHALL BE COORDINATED BETWEEN THE CONSTRUCTION MANAGER, MECHANICAL CONTRACTOR AND KITCHEN EQUIPMENT SUPPLIER. 5. ALL ROOFTOP UNITS INSTALLED IN McDONALD'S RESTAURANTS SHALL BE HIGH EFFICIENCY EQUIPMENT. THE INSTALLATION OF STANDARD EFFICIENCY ROOFTOP UNITS IS PROHIBITED. 6. ALL KITCHEN EQUIPMENT REQUIRING EXHAUST SHALL BE INSTALLED IN ACCORDANCE WITH THESE PLANS. ANY VARIATION FROM THESE PLANS SHALL BE REPORTED TO THE CONSTRUCTION MANAGER AND THE ENGINEER-OF-RECORD. 7. WHERE GYPSUM BOARD CEILINGS ARE INSTALLED, THE MECHANICAL CONTRACTOR SHALL SUPPLY DRYWALL MOUNTING FRAMES FOR LAY-IN TYPE DIFFUSERS. 8. ALL WORK SHOWN ON P1.6 DRAWING(S) SHALL BE COMPLETED BY THE BEVERAGE SYSTEM INSTALLER (OR K.E.S.) UNLESS OTHERWISE NOTED IN THE PLUMBING DRAWINGS. 9. ALL WORK ON P1.0 & P1.2 DRAWING(S) SHALL BE BY THE PLUMBING CONTRACTOR. 10. THE BEVERAGE SYSTEM INSTALLER FURNISHES, RUNS AND CONNECTS ALL FLEXIBLE WATER AND SYRUP LINES FOR ALL AFFECTED EQUIPMENT INCLUDING THE FOLLOWING: A. HOT CHOCOLATE B. COFFEE BREWER C. ICE MACHINE D. O.J. E. SODA TOWERS 11. ALL WATER HEATERS INSTALLED IN McDONALD'S RESTAURANTS SHALL BE HIGH EFFICIENCY SEALED-COMBUSTION WATER HEATERS. THE INSTALLATION OF STANDARD EFFICIENCY GRAVITY-VENTED WATER HEATERS IS PROHIBITED. 12. THE CONSTRUCTION MANAGER, PLUMBING CONTRACTOR AND KITCHEN EQUIPMENT SUPPLIER SHALL COORDINATE WHICH SOILED DISHWASHER (3-COMPARTMENT SINK) IS BEING INSTALLED IN THE RESTAURANT. 13. ALL GAS PIPING FOR COOKING EQUIPMENT SHALL TERMINATE IN THE CEILING PRIOR TO THE INSTALLATION OF THE PIPING CHASE. UPON INSTALLATION OF THE CHASE, THE GAS PIPING SHALL THEN BE CONTINUED IN THE CHASE FOR FINAL CONNECTION TO THE APPLIANCE. 14. ALL GAS PIPING FOR ROOFTOP EQUIPMENT SHALL BE BROUGHT UP THROUGH THE BASE OF THE UNIT TO MINIMIZE ROOF PENETRATIONS. WHERE THIS IS NOT POSSIBLE, THE PLUMBING CONTRACTOR SHALL PROVIDE THE NECESSARY PIPE PORTALS ON ROOF. 15. ALL FIRE PROTECTION DRAWINGS CONTAINED WITHIN THIS SET ARE STRICTLY FOR REFERENCE ONLY. FIRE SPRINKLER DRAWINGS SHALL BE DESIGNED AND PERMITTED BY A FIRE PROTECTION CONTRACTOR. 16. ALL R-102 WET CHEMICAL FIRE SUPPRESSION SYSTEMS FOR TYPE I HOODS SHALL BE DESIGNED AND INSTALLED BY A LOCAL ANSUL AGENT. THE USE OF DRY CHEMICAL SYSTEMS IS PROHIBITED. THE LOCAL ANSUL AGENT CONTRACT IS HANDLED THROUGH THE KITCHEN EQUIPMENT SUPPLIER. 17. ALL ROOFTOP UNITS AND EXHAUST FANS ARE SUPPLIED WITH A FACTORY-INSTALLED DISCONNECT SWITCH. 18. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCHES FOR REMOTE CONDENSING UNITS. 19. ALL ELECTRICAL CONDUITS FOR ROOFTOP EQUIPMENT SHALL BE BROUGHT UP THROUGH THE BASE OF THE UNIT TO MINIMIZE ROOF PENETRATIONS. WHERE THIS IS NOT POSSIBLE, THE ELECTRICAL CONTRACTOR SHALL PROVIDE THE NECESSARY PIPE PORTALS ON ROOF. 20. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION. 21. SEE STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION. 22. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION. 23. SEE PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION. 24. SEE ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION. 25. SEE FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION. 26. SEE FIRE ALARM DRAWINGS FOR ADDITIONAL INFORMATION. 27. SEE KITCHEN DRAWINGS FOR ADDITIONAL INFORMATION. 28. SEE DECOR DRAWINGS FOR ADDITIONAL INFORMATION.

EXPANSION TANK SCHEDULE

Table with columns: TAG, MANUFACTURER, MODEL, TOTAL VOL., CONNECTION, ACCESSORIES. Includes notes: 1. SEE DETAIL 6 ON DRAWING P3.0

PUMP SCHEDULE

Table with columns: TAG, MANUFACTURER, MODEL, HP, V, Ø, Hz, ACCESSORIES. Includes notes: 1. TIMECLOCK 2. AQUASTAT 3. CHECK VALVE

BACKFLOW PREVENTER SCHEDULE

Table with columns: TYPE, MFR, MODEL, ASSE LISTING, SERVES, LOCATION. Includes notes: 1. SEE ELECTRICAL DRAWINGS FOR TIMECLOCK WIRING 2. DESIGN: 2 GPM, 7 FT. HEAD 3. SEE DETAIL 6 ON DRAWING P3.0

INTERCEPTOR SCHEDULE

Table with columns: TAG, DESCRIPTION, MANUFACTURER, MODEL, ACCESSORIES, NOTES. Includes notes: 1. SEE GREASE INTERCEPTOR NOTES ON DRAWING P4.0 2. GREASE INTERCEPTOR IS SIZED FOR CITY SEWER APPLICATIONS ONLY. DO NOT USE FOR SEPTIC FIELDS. 3. FOR SCHIER HYDROMECHANICAL GREASE INTERCEPTOR ORDERING, CONTACT: LEE FLASHER, HUGHES SUPPLY, DIRECT LINE: (407) 509-7626, OR E-MAIL: MCDCOORD@HAJOCA.COM 4. FOR ZURN PROCEPTOR ORDERING, CONTACT HUGHES SUPPLY, DIRECT LINE: (407) 244-7918, OR E-MAIL: MCDCOORD@HAJOCA.COM

PLUMBING FIXTURE SCHEDULE

Table with columns: TAG, DESCRIPTION, MANUFACTURER, MODEL, WATER USE, ACCESSORIES/COMMENTS. Includes notes: 1. SEE DETAIL 2 ON DRAWING P3.0 2. SEE DRAWINGS FOR PIPE SIZES SEE NOTE 8 3. SEE NOTES 6 & 10 4. SEE NOTE 10 5. SEE DETAIL 3 ON P3.0 6. SEE NOTE 7 7. SEE NOTE 7 8. SEE NOTE 7 9. SEE NOTE 7 10. SEE NOTE 7 11. SEE NOTE 7 12. SEE NOTE 7 13. SEE NOTE 7 14. SEE NOTE 7 15. SEE NOTE 7 16. SEE NOTE 7 17. SEE NOTE 7 18. SEE NOTE 7 19. SEE NOTE 7 20. SEE NOTE 7 21. SEE NOTE 7 22. SEE NOTE 7 23. SEE NOTE 7 24. SEE NOTE 7 25. SEE NOTE 7 26. SEE NOTE 7 27. SEE NOTE 7 28. SEE NOTE 7

- NOTES: 1. SEE McDONALD'S PROJECT MANUAL FOR ADDITIONAL MANUFACTURERS 2. PLUMBING CONTRACTOR SHALL COORDINATE WITH G.C. TO PROVIDE BLOCKING FOR PROPER URINAL SUPPORT 3. PLUMBING CONTRACTOR SHALL COORDINATE WITH G.C. TO PROVIDE INTERIOR BLOCKING ON W/W BUILDING FOR WALL CLAMP 4. YARD HYDRANT IS FOR TRASH CORRAL - SEE SITE PLAN FOR LOCATION 5. PLUMBING CONTRACTOR SHALL ROUTE 1/2" DRAIN PIPE FROM HOSE BIBB TO NEAREST FLOOR DRAIN OR FLOOR SINK 6. PLUMBING CONTRACTOR SHALL COORDINATE WITH G.C. TO PROVIDE BLOCKING FOR PROPER SINK SUPPORT 7. SEE KITCHEN DRAWINGS FOR ADDITIONAL INFORMATION - PLUMBING CONTRACTOR SHALL COORDINATE INSTALLATION WITH K.E.S. 8. PLUMBING CONTRACTOR SHALL SPECIFY CONNECTION MATERIAL/TYPE WHEN ORDERING 9. PLUMBING CONTRACTOR SHALL SPECIFY BURY DEPTH WHEN ORDERING 10. PLUMBING CONTRACTOR SHALL PROVIDE GRID DRAIN, P-TRAP AND VALVE STOPS FOR ALL SINKS & LAVS

WATER HEATER SCHEDULE

Table with columns: TAG, MANUFACTURER, MODEL, GAL, HEATING TYPE, MBH, RECOV. 100°F ΔT, VOL. 120, GPH, GPM. Includes notes: 1. NSF INSTALLATION KIT

VALVE SCHEDULE

Table with columns: MANUFACTURER, MODEL, TEMP. SETTING, LISTING, SERVES. Includes notes: 1. SEE ELECTRICAL DRAWINGS FOR TIMECLOCK WIRING 2. DESIGN: 2 GPM, 7 FT. HEAD 3. SEE DETAIL 6 ON DRAWING P3.0

REVIEWED FOR COMPLIANCE WITH THE CITY CODE, ADOPTED BUILDING CODES, ZONING ORDINANCE AND DESIGN STANDARDS. THIS REVIEW AND APPROVAL DOES NOT RELIEVE THE DEVELOPER OR HIS AGENTS OF ANY RESPONSIBILITY OR OBLIGATION WITH ALL APPLICABLE REQUIREMENTS OF THE CITY OF SPRINGFIELD, MISSOURI, OR ANY OTHER JURISDICTIONS OR AGENCIES, UNLESS SPECIFICALLY NOTED OTHERWISE.

SIGNATURE: [Handwritten Signature]

PRJ2023-00032

DATE: 04/25/23

Table with columns: REV, DATE, DESCRIPTION. Includes a circular seal for David McCall Leffer, Professional Engineer, No. 14888, PE-20181214, State of Missouri, 11-07-2022.

PREPARED BY: CORE STATES GROUP

McDonald's USA, LLC

2022 STANDARD BUILDING - BB20

2022 STANDARD BUILDING - BB20 4-597 - WOOD/WOOD DESCRIPTION: WOOD BEARING WALLS W/HARDBOARD SIDING WOOD ROOF TRUSS FRAMING E.L.F.S./BATTEN/HARDBOARD SIDING EXTERIOR FINISH

SHEET NO. P4.1 SCHEDULES