

PLUMBING GENERAL NOTES

1. THE PLUMBING SUBCONTRACTOR'S SCOPE OF WORK INCLUDES ALL WORK WITHIN BUILDING UNLESS OTHERWISE NOTED.
2. SANITARY PIPING TO BE PVC. SLOPE 4" SANITARY PIPING AT 1% SLOPE. USE CAST IRON ONLY WHERE REQUIRED BY CODE OR AUTHORITY HAVING JURISDICTION.
3. THE PLUMBING SUBCONTRACTOR SHALL COORDINATE LOCATIONS OF ALL PLUMBING PIPING TO CLEAR INTAKE LOUVERS. PROVIDE 10'-0" CLEARANCE IN ALL DIRECTIONS FROM VENTS THROUGH ROOF TO OUTSIDE AIR INTAKES.
4. THE PLUMBING SUBCONTRACTOR SHALL REFER TO THE FIXTURING PLAN FOR COORDINATION OF ALL PIPING, EQUIPMENT, DUCTS, VALVING, AND SERVICE RISERS WITH THE FIXTURING. ALL SYSTEMS SHALL BE ROUTED AND/OR LOCATED AS REQUIRED TO AVOID INTERFERENCE WITH THE FIXTURES. INSTALLATIONS MADE WITHOUT REGARD TO FIXTURING SHALL BE CORRECTED AT NO ADDITIONAL COST TO THE OWNER.
5. THE PLUMBING SUBCONTRACTOR SHALL VERIFY AND MAKE CONNECTION TO EXISTING UTILITIES.
6. THE PLUMBING SUBCONTRACTOR SHALL FILL FLOOR DRAINS WITH WATER UPON COMPLETION OF WORK AND TESTING.
7. SLOPE HORIZONTAL VENT PIPING TOWARDS DRAIN PIPING.
8. ALL HOT AND COLD WATER PIPING SHALL BE INSULATED PER SPECIFICATIONS.
9. PIPING IN EXPOSED CEILING AREAS SHALL BE ROUTED AS HIGH AS POSSIBLE IN JOIST WITH ALLOWANCE FOR SLOPE AS REQUIRED.
10. ALL ABOVE GRADE PIPING SHALL BE RUN CONCEALED IN ALL ROOMS AND AREAS WHERE HUNG CEILING IS APPLIED.
11. CONDENSATE PIPING SHALL BE 1-1/2" MINIMUM PVC. EXTERIOR PVC CONDENSATE PIPING SHALL BE PAINTED LIGHT GRAY. USE LONG RADIUS SWEEPS ON CONDENSATE PIPE.
12. NOT USED.
13. DOMESTIC WATER PIPE SIZES ARE BASED ON FLOW CONDITIONS OF 55 GPM AND 55 PSI AT THE MAIN. VERIFY FLOW CONDITIONS. IF ACTUAL FLOW CONDITIONS ARE DIFFERENT, CONTACT MECHANICAL ENGINEER.
14. PROVIDE FIXTURES AS SPECIFIED OR AS OTHERWISE APPROVED BY ARCHITECT. SUBSTITUTES NOT ALLOWED WITHOUT ARCHITECT'S SPECIFIC APPROVAL.
15. ALL SANITARY AND WASTE PIPING SHALL BE RODDED OUT AFTER INSTALLATION IS COMPLETE, PRIOR TO JOB TURNOVER.
16. REFER TO SHEET M1.0 FOR MECHANICAL AND PLUMBING SYMBOLS AND ABBREVIATIONS LEGEND.
17. ALL PENETRATIONS THRU FIRE-RESISTANCE-RATED ASSEMBLIES SHALL BE SEALED IN ACCORDANCE WITH THE LOCAL CODE TO MAINTAIN FIRE RATING.
18. PROVIDE SOLID UNISTRUT SUPPORT (P1000) - NO EXCEPTIONS. FIELD DRILL THE NECESSARY HOLES AS REQUIRED. COORDINATE WITH OWNER.

PLUMBING KEYED NOTES

1. ROUTE RAINWATER LEADER DOWN TIGHT TO COLUMN INSIDE PILASTER TO BELOW SLAB, ROUTE UNDERGROUND AS SHOWN, BELOW SIDEWALK TO CONNECTION TO UNDERGROUND STORM LINE 5'-0" FROM OUTSIDE FACE OF EXTERIOR WALL. (REFER TO CIVIL PLANS FOR LOCATION). SEE DETAIL #12 ON SHEET P1.0 AND ARCHITECTURAL FOR MORE INFORMATION.
2. SEE ARCHITECTURAL SHEET A4.1 FOR DETAIL AND ROUTING OF OVERFLOW LEADERS THROUGH CANOPY TO PILASTER. ROUTE OVERFLOW RAINWATER LEADER DOWN (IN PILASTER) THEN THRU WALL WITH BOTTOM OF PIPE AT 6" ABOVE FINISHED GRADE. FIT WITH NICKEL DOWNSPOUT FACEPLATE AT DISCHARGE PER DETAIL #7 ON SHEET P1.0. COORDINATE WITH ARCHITECTURAL DRAWINGS FOR THE LOCATION OF WALL PENETRATION AND DISCHARGE.
3. CONDENSATE PIPING SHALL BE SUPPORTED ON MIFAB PIPESTANDS. SEE ROOF PIPING SUPPORT DETAIL ON SHEET P1.0 FOR SPECIFICATION. PROVIDE WITH MIFAB PIPE STRAP, CONNECT TO GUIDE HOLES AT THE TOP OF THE PIPE STAND WITH #8 STAINLESS STEEL SCREWS. LAY BLOCKING FLAT AND CENTER BELOW PIPING. DO NOT ATTACH PIPESTAND TO ROOF. TYPICAL AT ALL RTUS.
4. ALL DOWNSPOUTS SHALL BE PIPED TO STORM - SEE DETAIL #9 ON SHEET P1.0, AS WELL AS CIVIL AND ARCHITECTURAL, FOR MORE INFORMATION.
5. CAP AND ABANDON EXISTING CONDENSATE PIPING ROUTED IN JOIST SPACE BELOW ROOF.
6. ROUTE RTU CONDENSATE WASTE PIPE TO ROOF SCUPPER (TYPICAL ALL ROOFTOP UNITS).
7. ROUTE NEW CONDENSATE PIPING THROUGH EXISTING PARAPET WALL. SEE DETAIL #2 ON THIS SHEET.
8. CONNECT TO EXISTING CONDENSATE PIPING ON ROOF. FIELD VERIFY EXISTING PIPE SIZES AND LOCATIONS. ROUTE TO ROOF SCUPPER AS INDICATED ON PLAN.
9. CONNECT NEW 3/4" COLD WATER PIPE TO EXISTING COLD WATER PIPING IN EXISTING SHOWROOM AS SHOWN. (ROUTE NEW PIPING AS HIGH AS POSSIBLE, AND DROP IN CONCEALED LOCATION TO NEW SINK-1). CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATION AND LOCATION OF EXISTING PIPING PRIOR TO CONNECTION. ROUTE ALL NEW PIPING ABOVE BOTTOM CHORD OF JOISTS AND PAINT TO MATCH CEILING IN SALES AREAS.
10. ROUTE NEW 2" VENT PIPING AS HIGH AS POSSIBLE, AND DROP IN CONCEALED LOCATION TO NEW SINK-1 AND P-1. SEE ENLARGED PLANS ON SHEET P1.0 FOR CONTINUATION OF SANITARY AND VENT PIPING. ROUTE ALL NEW PIPING ABOVE BOTTOM CHORD OF JOISTS AND PAINT TO MATCH CEILING IN SALES AREAS.
11. PUMP DISCHARGE PIPING SHALL BE 2" PVC SCHEDULE 80 PRESSURE PIPE WITH PVC SCHEDULE 80 PRESSURE FITTINGS, OR CAST IRON WHERE REQUIRED BY CODE. ROUTE NEW 2" SANITARY PIPING FROM P-1 AS HIGH AS POSSIBLE, AND DROP IN CONCEALED LOCATION TO EXISTING SANITARY LINE. SEE ENLARGED PLANS ON SHEET P1.0 FOR CONTINUATION OF SANITARY AND VENT PIPING. ROUTE ALL EXPOSED PIPING ABOVE BOTTOM CHORD OF JOISTS AND PAINT TO MATCH CEILING IN SALES AREAS.
12. ROUTE 2" SANITARY FROM SINK-1 AT A SLOPE OF 1/4" TO P-1 INLET. SEE WASTE AND VENT PIPING DIAGRAM ON SHEET P1.0 FOR MORE INFORMATION.

SPECIFICATIONS:
SELF-CONTAINED DRAIN PUMP (P-1) BY
LIBERTY PUMPS, MODEL 405/A, 115V, 7.3 FLA,
1/2 HP WITH FACTORY-EQUIPPED FLOAT
SWITCH. PUMP DISCHARGE PIPING SHALL BE
2" PVC SCHEDULE 80 PRESSURE PIPE WITH
PVC SCHEDULE 80 PRESSURE FITTINGS, OR
CAST IRON WHERE REQUIRED BY CODE.

3 INSTANT FLOW WH BELOW SINK DETAIL
P2.0 SCALE: NOT TO SCALE (SIMILAR AT SINK-1)

4 DRAIN PUMP (P-1) DETAIL
P2.0 SCALE: NOT TO SCALE

GENERAL NOTES:

ALL WORK SHALL COMPLY WITH
DRAWINGS AND SPECIFICATIONS. THIS IS
A PROTOTYPICAL DESIGN. ANY FIELD
CHANGES REQUIRE OWNER OR
ARCHITECT APPROVAL.

ALL CONDENSATE PIPING SHALL BE
PAINTED LIGHT GRAY. EXISTING PIPING
SHALL BE PAINTED AND/OR TOUCHED UP
TO "LIKE NEW" CONDITION.

USE LONG RADIUS SWEEPS ON
CONDENSATE PIPES.

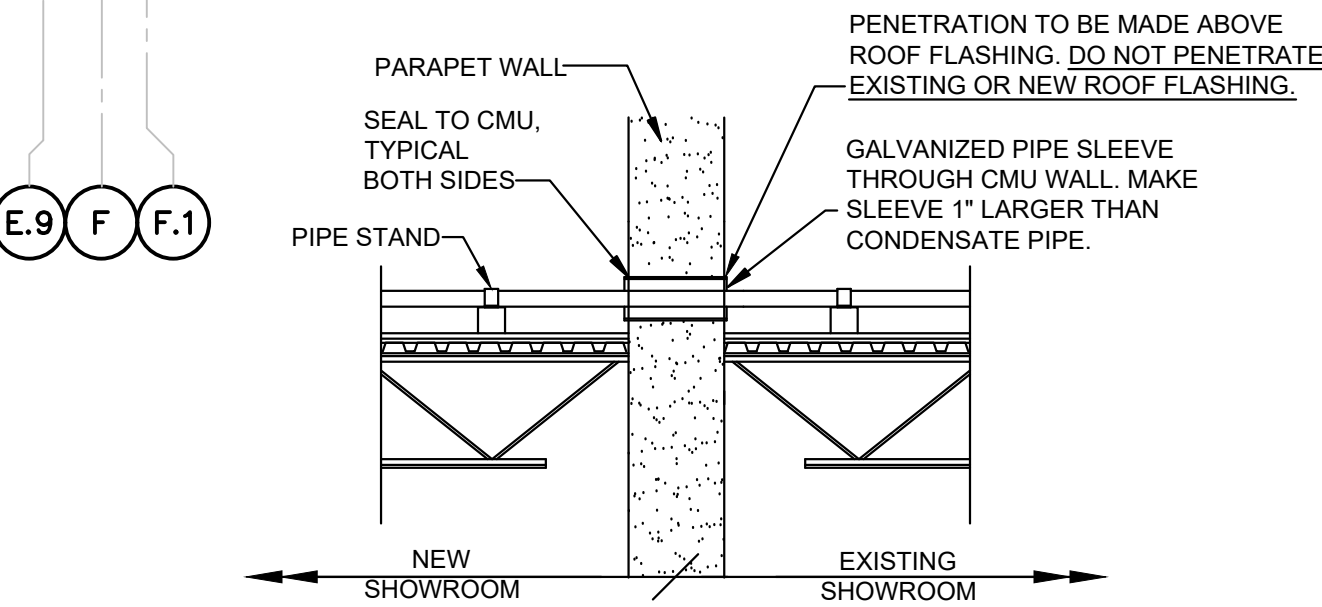
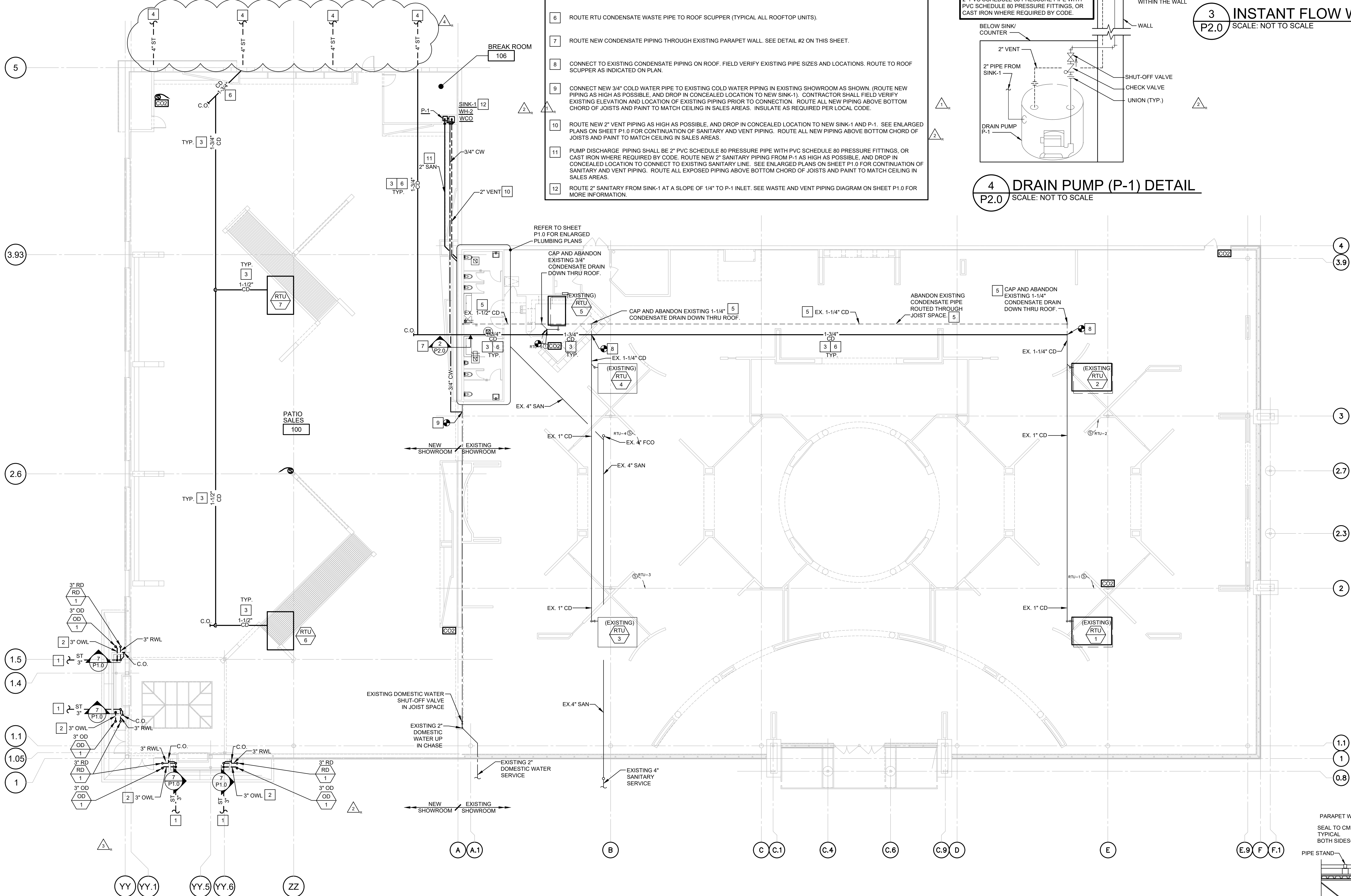
PROVIDE SOLID UNISTRUT SUPPORT
(P1000) - NO EXCEPTIONS. FIELD DRILL
THE NECESSARY HOLES AS REQUIRED.
COORDINATE WITH OWNER.

CONDENSATE PIPING SHALL BE 1-1/2"
MINIMUM PVC.

BUILDING DRAIN BY PLUMBING
CONTRACTOR WITHIN 5'-0" OF BUILDING.

THE PLUMBING SUBCONTRACTOR'S
SCOPE OF WORK INCLUDES ALL WORK
WITHIN BUILDING UNLESS OTHERWISE
NOTED.

SYMBOLS AND ABBREVIATIONS:
SEE SHEET M1.0



2 PIPE THROUGH PARAPET DETAIL
P2.0 SCALE: NOT TO SCALE

1 PLUMBING PLAN
P2.0 SCALE: 3/32" = 1'-0"
NORTH

No.	Description	CONSTR. DOC. & REVISIONS
C	CODE RESPONSE	Date
1	CHANGE BULLETIN #3	12/13/21
2	CHANGE BULLETIN #4	07/28/22
3	CHANGE BULLETIN #5	09/14/22
4	CHANGE BULLETIN #6	10/18/22
		11/22/22

CASCO PROFESSIONAL SERVICES, LLC
12 SUNNEN DRIVE, SUITE 100, ST. LOUIS, MO 63143
314-821-1100
Engineering
#CA29655 02/28/23

PROFESSIONAL OF RECORD
MICHAEL C. GRAPPERHAUS
License No. 73520
Expiration Date 02/28/23
Drawn By/Checked By: JCM/MCG
Project Number 2100630
Owner & Permit Date 09/21/21
Bid Date 04/20/22