MIDLOTHIAN INDEPENDENT SCHOOL DISTRICT
BAXTER ES KITCHEN RENOVATIONS

ADDENDUM NO. 2
May 6, 2022

The following items modify the Plans, and shall become a part of the Contract Documents:

DRAWINGS:

ITEM NO. 01 E100 – FLOOR PLAN – LEVEL 1 - ELECTRICAL

A. Added power for new kitchen serving lines.
B. Revised power for new double oven.
C. Added additional key notes under 'NOTES BY SYMBOL'.

ITEM NO. 02 E700 – LIGHT FIXTURE & PANEL SCHEDULES

A. Revised panel schedules 'K' & 'P4'.

ITEM NO. 03 P000 – PLUMBING SPECIFICATIONS, LEGENDS, & NOTES

A. Changed Note 3 under the General notes for Div. 22 Plumbing specs
B. Removed Note C under Tests and Inspections
C. Removed Note 7 under the General Plumbing Notes

ITEM NO. 04 P100 – FLOOR PLAN – LEVEL 1 – PLUMBING

A. Added the drain lines for the 3 compart sink on View 1
B. Added note 5 to 4 different pipes in View 1
C. Created note 6 in the note by symbol
D. Added note 6 on View 2
E. Added the pipe size on View 2
F. Added a Connect to Existing symbol on View 2

End Addendum No. 2

T E BAXTER ELEMENTARY SCHOOL
KITCHEN RENOVATION

CONSULTANT INFO

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VICINITY MAP

SHEET INDEX

general

SHEET #	DESCRIPTION	ORIG. ISSUE	REV. DELTA #	REV. DATE
G-001	TITLE SHEET	04/28/2022	1	05.06.2022
G-002	WALL TYPES/PROJECT INFORMATION	04/28/2022		

architectural

SHEET #	DESCRIPTION	ORIG. ISSUE	REV. DELTA #	REV. DATE
AD101	DEMOLITION PLANS	04/28/2022		
A-101	FIRST FLOOR PLAN	04/28/2022		
A-103	FIRST FLOOR RCP	04/28/2022		
A-601	DOOR SCHED./ELEV.	04/28/2022		
A-701	FLOOR FINISH PLAN	04/28/2022		
A-702	SPECIFICATIONS	04/28/2022		

mechanical

SHEET #	DESCRIPTION	ORIG. ISSUE	REV. DELTA #	REV. DATE
M001	SPECIFICATIONS - MECHANICAL	04/28/2022		
M100	FLOOR PLAN - LEVEL 1 - KITCHEN - HVAC	04/28/2022		

plumbing

SHEET #	DESCRIPTION	ORIG. ISSUE	REV. DELTA #	REV. DATE
P000	PLUMBING SPECIFICATIONS, LEGENDS & NOTES	04/28/2022	1	05/06/2022
P100	FLOOR PLAN - LEVEL 1 - PLUMBING	04/28/2022	1	05/06/2022

electrical

SHEET #	DESCRIPTION	ORIG. ISSUE	REV. DELTA #	REV. DATE
E000	ELECTRICAL NOTES & LEGENDS	04/28/2022	1	05/06/2022
E001	SPECIFICATIONS ELECTRICAL	04/28/2022		
E100	FLOOR PLAN - LEVEL 1 - ELECTRICAL	04/28/2022		
E200	FLOOR PLAN - LEVEL 1 - LIGHTING	04/28/2022		
E600	ELETRICAL DETAILS	04/28/2022		
E700	LIGHT FIXTURE & PANEL SCHEDULES	04/28/2022	1	05/06/2022

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05/06/2022

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OWP PROJECT NO. | DATE OF ISSUE
2022-110-00 | 04.28.2022

REVISIONS

DELTA	DESCRIPTION	DATE
1	ADDENDUM # 2	05.06.2022

PROJECT TEAM: ED TEXAS
DRAWN BY: TEAM

PROJECT PHASE
CONSTRUCTION DOCUMENTS

SHEET CONTENTS
TITLE SHEET

SHEET NO.
G-001

DIVISION 22 PLUMBING SPECIFICATIONS

A. GENERAL

1. THESE DRAWINGS AND ACCOMPANYING SPECIFICATIONS ARE INTENDED TO DESCRIBE AND ILLUSTRATE SYSTEMS THAT WILL NOT INTERFERE WITH THE ARCHITECTURAL AND STRUCTURAL CONDITIONS OF THE BUILDING, AND WILL FIT INTO AVAILABLE SPACES.

2. CAREFULLY LAY OUT ALL WORK TO CONFORM TO THE ARCHITECTURAL, STRUCTURAL, AND FINISH CONDITIONS; AND WITH OTHER TRADES PRIOR TO STARTING ANY WORK, TO AVOID OBSTRUCTIONS AND TO ALLOW THE PROPER INSTALLATION OF EACH ITEM. CONTRACTOR SHALL BECOME FAMILIAR WITH WALL AND PARTITION LOCATIONS, CEILING HEIGHTS, FINISHES, AND OTHER PERTINENT DATA FROM ARCHITECTURAL DRAWINGS. CONTRACTOR SHALL FURTHER BECOME FAMILIAR WITH LOCATIONS OF PIERS, BEAMS, COLUMNS, JOISTS, AND OTHER PERTINENT DATA FROM STRUCTURAL DRAWINGS.

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3. CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS AND INSPECTIONS INSPECTIONS. CONTRACTOR SHALL GIVE ALL NOTICES, FILE ALL NECESSARY DRAWINGS, AND OBTAIN ALL PERMITS AND CERTIFICATES FOR APPROVAL FROM THE LOCAL AUTHORITIES HAVING JURISDICTION AS REQUIRED FOR FOR THE PARTICULAR CLASS OF WORK INVOLVED.

4. EXECUTE ALL WORK IN ACCORDANCE WITH (BASE BUILDING STANDARDS SET FORTH BY THE BUILDING OWNER) AND LOCAL, STATE, NATIONAL CODES, ORDINANCES, AND OTHER APPLICABLE REGULATIONS GOVERNING THE PARTICULAR CLASS OF WORK INVOLVED. THE GOVERNING CODES ARE MINIMUM REQUIREMENTS AND WHERE THE CONTRACT DOCUMENTS EXCEED CODE REQUIREMENTS, THESE DOCUMENTS SHALL PREVAIL.

5. UNLESS SPECIFICALLY DIRECTED OTHERWISE, FURNISH AND INSTALL EACH AND EVERY ITEM CONTAINED IN, AND ASSOCIATED WITH, THE PARTICULAR CLASS OF WORK INVOLVED AS SHOWN ON THE DRAWINGS AND FURTHER DESCRIBED IN THESE SPECIFICATIONS, TOGETHER WITH ALL APPURTENANCES AND INCIDENTALS NECESSARY TO COMPLETE THE WORK. THIS SHALL INCLUDE, BUT NOT NECESSARILY BE LIMITED TO: LABOR, TRANSPORTATION, TOOLS, STORAGE, CUTTING, PATCHING AND CLEAN-UP.

6. LOCATE ALL EQUIPMENT, FIXTURES, DUCTWORK, PIPING, AND OTHER ITEMS IN APPROXIMATE LOCATIONS SHOWN. PROVIDE ANY ADDITIONAL SUPPORTS, HANGERS, AND OPENINGS, AS REQUIRED FOR A COMPLETE AND SATISFACTORILY OPERATING INSTALLATION. COORDINATE ALL WORK TO PROVIDE FOR ALL SERVICE AND ACCESS CLEARANCES AS RECOMMENDED BY THE EQUIPMENT MANUFACTURER. ALL EQUIPMENT AND INSTALLATIONS SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.

7. THE LOCATIONS, POINTS OF CONNECTION, DIMENSIONAL DATA AND OTHER MEASUREMENTS SHOWN ARE OFFERED AS A GENERAL GUIDE ONLY AND WITHOUT GUARANTEE OF COMPLETE ACCURACY. ALL EXISTING ITEMS SHOWN ARE NOT TAKEN FROM EXISTING "AS-BUILT" DRAWINGS AND LIMITED FIELD SURVEY. CONTRACTOR SHALL VISIT THE SITE, AND REASONABLY FIELD VERIFY THE WORKING CONDITIONS REQUIRED TO INSTALL THE PARTICULAR CLASS OF WORK INVOLVED. MAKE PROVISIONS IN BID FOR SAME TO ASSURE THAT THE RESULTING INSTALLATION WILL BE COMPLETE, COORDINATED, AND RESULT IN A PROPERLY OPERATING SYSTEM.

8. CONTRACTOR SHALL PROVIDE THE OWNER WITH ONE COPY OF THESE DRAWINGS. MARKED WITH ANY ADDITIONS TO, OR DEVIATIONS FROM, THE WORK ILLUSTRATED, TO REPRESENT "AS-BUILT" CONDITIONS.

9. CONTRACTOR SHALL GUARANTEE THE ENTIRE INSTALLATION AGAINST DEFECTS IN MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER SUBSTANTIAL COMPLETION.

10. COOPERATE WITH OTHER TRADES TO KEEP THE WORK AREA CLEAN AND FREE OF UNNECESSARY MATERIALS OR DEBRIS ON A DAILY BASIS. WHEN WORK IS COMPLETE, REMOVE ALL TOOLS, SCAFFOLDING, MACHINERY, AND DEBRIS. CLEAN ALL DIRT AND DUST FROM ITEMS OF WORK AND BROOM SWEEP THE WORK AREA DAILY.

11. COOPERATE WITH THE OWNER'S REPRESENTATIVE AND OTHER TRADES TO MEET THE ESTABLISHED CONSTRUCTION SCHEDULE. SCHEDULE WORK SO AS TO AVOID DELAYING OTHER TRADES.

12. PROVIDE PIPING MARKERS FOR THE PIPING SYSTEMS, TO INCLUDE FLOW ARROWS, EVERY 30' ON CENTER AND 3'-0" BEFORE AND AFTER ELBOWS OR TEES.

13. SUBMIT ON ALL EQUIPMENT AND MATERIALS SPECIFIED HEREIN PRIOR TO COMMENCING WITH ANY WORK. FAILURE TO COMPLY WILL RESULT IN REPLACEMENT OF ALL ITEMS FOUND NOT IN COMPLIANCE WITH THESE REQUIREMENTS.

14. PROTECT ALL BUILDING COMPONENTS, WALLS, ROOFS, FLOORS, ADJACENT EQUIPMENT, LIGHTING, ETC. ANY ITEMS DAMAGED, OR WHERE FINISHES HAVE BEEN MARRED, SHALL BE REPAIRED TO THEIR ORIGINAL CONDITION AT NO COST TO THE OWNER. ALL ITEMS SOILED IN THE PROGRESS OF WORK SHALL BE CLEANED TO A "LIKE NEW", OR PRE-EXISTING, CONDITION.

15. AT TIME OF FINAL INSTALLATION OBSERVATIONS, THE OPERATION OF ALL SYSTEMS OF EQUIPMENT SHALL HAVE BEEN DEMONSTRATED TO PERFORM PROPERLY.

16. ANY DISCREPANCIES DISCOVERED BY THE CONTRACTOR DURING BIDDING SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR ENGINEER SO THAT AN ADDENDUM MAY BE ISSUED TO ADDRESS THOSE ITEMS PRIOR TO BIDDING. ANY DISCREPANCIES DISCOVERED AFTER BIDDING, THAT WERE REASONABLE TO HAVE BEEN DISCOVERED, SHALL BE CORRECTED AT THE EXPENSE OF THE CONTRACTOR.

17. FOR RENOVATION AND REMODEL WORK, CAREFULLY REMOVE AND PROTECT ALL UNUSED EXISTING FIXTURES/EQUIPMENT, PIPING, DUCTWORK, ELECTRICAL SERVICES, AND ALL OTHER ITEMS ASSOCIATED THEREWITH WHERE INDICATED. COORDINATE WITH OWNER'S REPRESENTATIVE PRIOR TO REMOVAL AND DISPOSAL TO VERIFY WHETHER OWNER DESIRES TO KEEP ANY EXISTING ITEMS AND THE DESIRED MANNER OF DISPOSITION THEREOF. STORE ALL REMOVED ITEMS ON SITE FOR A MINIMUM OF TWO (2) WEEKS, UNLESS INDICATED OTHERWISE BY THE OWNER'S REPRESENTATIVE, TO ALLOW FOR INSPECTION BY THE OWNER. ALL ITEMS NOT RETAINED BY THE OWNER SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. REFER TO ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DEMOLITION DRAWINGS.

18. EXISTING BUILDING OPERATIONS MUST REMAIN ACTIVATED AT ALL TIMES DURING NORMAL OPERATING HOURS. OBTAIN PERMISSION FROM OWNER'S REPRESENTATIVE PRIOR TO SHUTTING-DOWN ANY BUILDING SYSTEM. PROVIDE TEMPORARY CONNECTIONS OF UTILITIES AND AIR CONDITIONING AS NECESSARY TO FACILITATE THE PHASES OF CONSTRUCTION. MAINTAIN AIR DISTRIBUTION AND PIPING SYSTEMS TO OTHER FLOORS OF THE BUILDING OUTSIDE OF THE DEMOLITION AREA. SHUT DOWN OF EXISTING SYSTEMS SHALL OCCUR DURING UNOCCUPIED PERIODS WHERE POSSIBLE.

19. PENETRATIONS OF THE CEILINGS, WALLS, OR FLOORS SHALL BE PATCHED, SLEEVED, SEALED, ESCUTCHEONED, AND RESTORED TO THE ORIGINAL FINISH CONDITIONS AND FIRE RATINGS. COORDINATE ALL PENETRATIONS WITH OTHER TRADES.

B. PLUMBING SCOPE OF WORK:

1. PROVIDE ALL MATERIALS, EQUIPMENT, AND PAY ALL COSTS CONNECTED WITH THE MODIFICATIONS OF EXISTING PLUMBING SYSTEMS AS SHOWN ON THE DRAWINGS, AND AS HEREINAFTER SPECIFIED.

2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FURNISH ALL ITEMS OF MATERIAL AND LABOR, AND ALL OTHER COSTS, TO COMPLETE THE WORK WITHIN THE INTENT OF THESE DRAWINGS, EVEN THOUGH EACH AND EVERY ITEM NECESSARY IS NOT SPECIFICALLY MENTIONED OR SHOWN.

3. SUBMIT MANUFACTURER'S BROCHURES ON BASIC MATERIALS AND PLUMBING FIXTURES TO THE ARCHITECT AND ENGINEER FOR REVIEW AND APPROVAL.

4. ALL WORK SHALL BE AS INDICATED ON THE DRAWINGS AND SHALL INCLUDE, BUT NOT BE LIMITED TO:

   a. DOMESTIC COLD WATER SYSTEM, INCLUDING DISTRIBUTION AND BACKFLOW PREVENTION, AS REQUIRED BY CODE AND CONNECTION TO EXISTING WATER SUPPLIES.

   b. DOMESTIC HOT WATER SYSTEM, INCLUDING EXTENDING AND CONNECTION TO DISTRIBUTION PIPING.

   c. TRIM FOR PLUMBING FIXTURES, INCLUDING SETTING, AND FINAL CONNECTIONS.

   d. THERMAL INSULATION OF ALL PIPING SYSTEMS.

   e. ROUGH-IN AND FINAL CONNECTIONS FOR OWNER FURNISHED EQUIPMENT AND EQUIPMENT FURNISHED BY OTHER TRADES.

   f. ALL PERMITS AND FEES.

   g. INSPECTION AND TESTING.

C. PLUMBING MATERIALS AND WORKMANSHIP:

1. UTILITY CONNECTIONS:

   a. CONTRACTOR SHALL, BEFORE COMMENCEMENT OF THE PROJECT, VERIFY THE LOCATION, DEPTH, SIZE, AND PRESSURE OR GRADE OF ALL EXISTING BUILDING UTILITY LINES TO WHICH CONNECTIONS FOR SERVICE ARE TO BE MADE. IF, FOR ANY REASON, CONDITIONS APPEAR THAT WILL ADVERSELY AFFECT THE PROPER INSTALLATION AND OPERATION OF THESE SYSTEMS, SUCH CONDITIONS SHALL BE REPORTED TO THE PROJECT COORDINATOR IN WRITING FOR RESOLUTION THEREBY.

   b. ALL CHARGES FOR CUTTING AND PATCHING OF CONCRETE SLAB, WALLS, ETC., REQUIRED FOR THESE SERVICES, SHALL BE INCLUDED IN THE BID.

2. SANITARY SEWER/VENT SYSTEM:

   a. FURNISH AND INSTALL A COMPLETE SANITARY SYSTEM OF SOIL, WASTE, AND VENT PIPING FOR ALL NEW AND RELOCATED FIXTURES, DRAINS, EQUIPMENT DISCHARGES, ETC., AS SHOWN ON THE DRAWINGS AND HEREINAFTER SPECIFIED. ALL PIPING SHALL RUN STRAIGHT AS POSSIBLE AND BE INSTALLED TO GRADE A MINIMUM OF 1/4" PER FOOT FOR PIPING 3" AND SMALLER, AND 1/8" PER FOOT FOR PIPING 4" AND LARGER, UNLESS NOTED OTHERWISE. INSTALL THE SYSTEM IN ACCORDANCE WITH ALL LOCAL CODES.

   b. SANITARY SYSTEM WASTE AND VENT PIPING SHALL BE CISPI 301, OR ASTM B888 SERVICE WEIGHT ASPHALTUM COATED CAST IRON SOIL PIPE AND ASTM A74 SERVICE WEIGHT CAST IRON FITTINGS. JOINTS SHALL BE MADE WITH A STAINLESS STEEL CORRUGATED SHIELD AND CLAMP ASSEMBLY OVER ONE PIECE NEOPRENE SEALING SLEEVE, CLAMP-ALL "HI-TORQ 80" OR HUSKY SD-2000. CONTRACTOR SHALL INSTALL ALL UNDERGROUND SANITARY PIPING WITH POLY VINYL CHLORIDE (PVC) SCHEDULE 40, DRAIN WASTE VENT (DWV) PIPE, ASTM D2466, ASTM D 2321, ASTM D2665 AND ASTM 1785, NSF STAMPED AND APPROVED. SYSTEM SHALL BE RATED FOR 200 PSI MINIMUM PRESSURE. FITTING SHALL BE POLY VINYL CHLORIDE (PVC) SCHEDULE 40, DWV PATTERNED FITTINGS, ASTM D2466 AND ASTM 1784, NSF STAMPED AND APPROVED. SOLVENT CEMENT: SHALL COMPLY WITH PIPE AND FITTING MANUFACTURERS RECOMMENDATIONS AND SHALL BE A TWO (2) STEP PROCESS WITH PRIMER MANUFACTURED FOR THERMOPLASTIC PIPING SYSTEMS AND SOLVENT CEMENT PER MANUFACTURER AND SHALL CONFORM TO ASTM D2564 AND ASTM F656.

   c. **PVC PIPE MATERIAL SHALL NOT BE ALLOWED TO SERVE FIXTURES, DRAINS, OR EQUIPMENT SUBJECT TO RECEIVING FLUIDS WITH TEMPERATURES OF 140 DEG.F. OR HIGHER.** PROVIDE CAST IRON SERVICE WEIGHT PIPE AND FITTINGS AS SPECIFIED ABOVE AND EXTEND A MINIMUM OF 20' (TWENTY FEET) OR TO MAIN WASTE LINE TO ASSURE HIGH TEMPERATURE COOLS IN CAST IRON PIPE BEFORE ENTERING PVC PIPING MATERIAL. WHERE PVC IS NOT TO BE USED BELOW GRADE PROVIDE CAST IRON PIPE WITH BELL AND SPIGOT JOINTS, AND USE NEOPRENE COMPRESSION GASKET SEALS, ASTM C564. PIPES AND JOINTS SHALL BE MARKED WITH THE APPLICABLE CISPI STANDARD COMPLIANCE COLLECTIVE TRADEMARK.

3. FLOOR DRAINS/FLOOR SINKS:

   a. CURRENTLY THERE ARE NO NEW FLOOR DRAINS OR FLOOR SINKS. ALL NEW FIXTURES AND EQUIPMENT WILL DISCHARGE OPEN SITE AT EXISTING FLOOR DRAINS AND FLOOR SINKS.

4. FIELD QUALITY CONTROL

   a. FURNISH INSTRUMENTS, EQUIPMENT, AND LABOR NECESSARY TO CONDUCT TESTS.

   b. TEST DRAINAGE, WASTE, AND VENTING PIPING WITH WATER BEFORE FIXTURES ARE INSTALLED.

   c. AFTER PLUMBING FIXTURES HAVE BEEN SET AND TRAPS FILLED WITH WATER, SUBMIT ENTIRE DRAINAGE, WASTE, AND VENTING SYSTEM TO FINAL TEST WITH SMOKE.

5. DOMESTIC WATER SYSTEM:

   a. FURNISH AND INSTALL A COMPLETE WATER SUPPLY SYSTEM WITH BRANCH LINES SERVING ALL NEW AND RELOCATED PLUMBING FIXTURES, FAUCETS, EQUIPMENT, ETC., AS INDICATED ON THE DRAWINGS, AND AS SPECIFIED HEREIN.

   b. PIPE MATERIALS: WATER PIPING LOCATED ABOVE GRADE 2-1/2" AND SMALLER SHALL BE, ASTM E88 TYPE "L" HARD COPPER TUBING WITH ANSI B16.22 WROUGHT COPPER FITTINGS. JOINTS SHALL BE MADE WITH 95/5 SOLDER. WATER PIPING LOCATED BELOW GRADE SHALL BE, ASTM B88 TYPE "K", SOFT COPPER. THERE SHALL BE NO JOINTS IN TUBING LOCATED UNDER THE SLAB.

   c. VALVES: PROVIDE BRONZE LEAD FREE BALL VALVES WITH STAINLESS STEEL BALL AND STEMS FOR PIPE SIZES 2 1/2" AND SMALLER. VALVES SHALL BE EQUAL TO THAT AS MANUFACTURED BY HAMMOND - ULTRAPURE.

   d. RO WATER PIPING: ALL REVERSE OSMOSIS PIPING SHALL BE SCH. 40 SOCKET-FUSED, UNPIGMENTED TYPE 2 VIRGIN NATURAL POLYPROPYLENE CONFORMING TO ASTM D4101. FITTINGS SHALL BE BY SAME MANUFACTURER AS THE PIPING AND SHALL BE SOCKET FUSION UNPIGMENTED TYPE 2 VIRGIN COPOLYMER POLYPROPYLENE. BALL VALVES SHALL BE DOUBLE-BLOCKING TYPE WITH O-RING CUSHIONS UNDER THE PTFE SEATS, VIRGIN, UNPIGMENTED TYPE 1

   HOMOPOLYMER POLYPROPYLENE. ACCEPTABLE MANUFACTURER: IPEX – ENPURE HIGH-PURITY POLYPROPYLENE OR EQUAL BY ORION.

   e. PIPING SHALL BE INSTALLED WITH A GRADE FOR DRAINAGE TOWARD MAIN SUPPLY RISERS AND TO FIXTURE CONNECTIONS TO ALLOW COMPLETE DRAINAGE OF THE SYSTEM.

   f. WATER SYSTEM SHALL BE STERILIZED WITH A SOLUTION OF HTH IN ACCORDANCE WITH THE REQUIREMENTS OF THE STATE PUBLIC HEALTH DEPARTMENT. PUMP THE HTH SOLUTION INTO THE WATER SYSTEM AND FILL THE COMPLETE SYSTEM, INCLUDING BRANCH PIPES. EACH OUTLET SHALL BE PURGED FOR AIR DURING THE STERILIZATION PROCESS. SYSTEM SHALL BE COMPLETELY FLUSHED AFTER STERILIZATION.

   g. AT EACH FIXTURE FAUCET, PROVIDE A STOP VALVE IN EACH SUPPLY. STOP VALVES SHALL BE IN ACCORDANCE WITH PLUMBING CODE. PROVIDE IN-LINE CHECKS ON WATER SUPPLIES AT FAUCET WHERE REQUIRED TO PREVENT CROSS-CONNECTIONS. INSTALL AIR CHAMBERS 1'-6" MINIMUM HEIGHT AT ALL CONNECTIONS AND ASSE 1010 APPROVED & PDI CERTIFIED SHOCK ARRESTERS EQUAL TO "HYDRA-RESTER", SIOUX CHIEF MANUFACTURING CO.

   h. VACUUM BREAKERS:
      1) ACCEPTABLE MANUFACTURER:
         a) WATTS.
         b) FEBCO.
         c) BEECO.
      2) ATMOSPHERIC, CHECK VALVE TYPE.
      3) BRONZE BODY CONSTRUCTION WITH POLISHED CHROME FINISH.

   i. SPILL-RESISTANT VACUUM BREAKERS:
      1) ACCEPTABLE MANUFACTURER:
         a) WATTS.
         b) FEBCO.
         c) BEECO.
      2) ANTI-SIPHON
      3) TESTABLE, CHECK VALVE TYPE.
      4) LEAD FREE BRONZE BODY CONSTRUCTION WITH POLISHED CHROME FINISH.
      5) EQUAL TO WATTS LF008PCQT

   j. REDUCED PRESSURE TYPE BACKFLOW PREVENTER ASSEMBLY (FOR NON-RO WATER).
      1) ACCEPTABLE MANUFACTURERS:
         a) WATTS.
         b) BEECO.
         c) AMES.
      2) DOUBLE CHECK VALVE TYPE WITH SHUTOFF VALVES
         a) QUARTER TURN BALL SHUT-OFF VALVES UP TO 2-1/2 INCHES.
         b) OUTSIDE STEM AND YOKE GATE SUT-OFF VALVES 3 INCHES AND OVER.
      3) DIFFERENTIAL PRESSURE TYPE RELIEF VALVE WITH AIR GAP FITTING.
      4) LEAD-FREE BRONZE BODY CONSTRUCTION UP TO 2-1/2 INCHES.
      5) CAST IRON BODY CONSTRUCTION 3 INCHES AND OVER.
      6) PROVIDE IN-LINE UPSTREAM Y-TYPE STRAINER.
         a) 20 MESH STRAINER 2 INCHES AND BELOW.
         b) 0.125 PERFORATED SCREEN MESH 2-1/2 INCHES AND OVER.
      7) ACCEPTABLE PRODUCT: WATTS NO. 909S (FDA)-QT.

   k. REDUCED PRESSURE TYPE BACKFLOW PREVENTER ASSEMBLY – STAINLESS STEEL (FOR CONNECTION TO COMMERCIAL DISHWASHERS):
      1) ACCEPTABLE MANUFACTURES:
         a) WATTS.
         b) APOLLO.
         c) WILKINS.
      2) DOUBLE CHECK VALVE TYPE WITH SHUTOFF VALVES.
         a) QUARTER TURN BALL SHUT-OFF VALVES UP TO 1 INCHES.
      3) DIFFERENTIAL PRESSURE TYPE RELIEF VALVE WITH AIR GAP FITTING.
      4) LEAD-FREE STAINLESS STEEL BODY CONSTRUCTION UP TO 1 INCHES.
      5) PROVIDE IN-LINE UPSTREAM Y-TYPE STRAINER.
         a) 20 MESH STRAUNER 1 INCHES AND BELOW.
      6) ACCEPTABLE PRODUCT: WATTS NO. 009SS-QT.

   l. PROVIDE STAINLESS STEEL, 16 INCH BY 16 INCH ACCESS DOORS WITH CAM LOCKS EQUAL TO MILCOR STYLE "K, M OR DW" AS REQUIRED FOR ACCESS TO ALL VALVES BEHIND GYPSUM BOARD CEILINGS AND WALLS, PAINT TO MATCH ADJACENT FINISHES.

   m. INSTALL BRONZE LEAD FREE CHECK VALVES IN THE HOT AND COLD WATER BRANCHES TO MIXING TYPE FAUCETS OR MIXING VALVES, AS REQUIRED TO PREVENT CROSS-CONNECTIONS.

   n. INSULATION: INSULATION OF ALL DOMESTIC HOT AND COLD WATER PIPING WITHIN THE BUILDING AND ALL CONDENSATE DRAIN PIPING.
      1) DOMESTIC COLD AND HOT WATER: ONE INCH (1") THICK, 4 POUND OR HEAVIER DENSITY, MOLDED SECTIONAL GLASS FIBER PIPE COVERING WITH FACTORY APPLIED, WHITE FRG, FIRE RESISTANT, VAPOR BARRIER JACKET. USE 7 PSF DENSITY INSULATION INSERTS WITH 16 GAUGE MOLDED FIBERGLASS WITH FIRE RESISTANT JACKET. ELBOWS AND FITTINGS WILL BE THE SAME THICKNESS.
      2) CONDENSATE DRAIN: 1/2" ARMAFLEX OR APPROVED EQUAL.
      3) COPPER TUBING BELOW SLAB OR CAST IN CONCRETE: 1/2" ARMAFLEX OR APPROVED EQUAL.

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6. TESTS AND INSPECTIONS

   a. WASTE AND VENT PIPING SHALL BE TESTED ON COMPLETION OF THE ROUGH WORK AND BEFORE FIXTURES AND TRAPS ARE CONNECTED. ALL OPENINGS, EXCEPT HIGHEST VENTS, ARE TO BE PLUGGED AND THE SYSTEM COMPLETELY FILLED WITH WATER. SYSTEM SHALL STAND WITHOUT LEAK OR LOSS OF WATER FOR A PERIOD OF NOT LESS THAN FOUR (4) HOURS.

   b. ALL WATER PIPING SHALL BE PRESSURIZED HYDRAULICALLY AT 150 POUNDS PER SQUARE INCH AND THIS PRESSURE SHALL BE HELD WITHOUT ADDITIONAL PRESSURIZATION FOR NOT LESS THAN ONE (1) HOUR. EQUIPMENT, ETC., IN THE SYSTEM THAT MAY BE DAMAGED BY THIS PRESSURE SHALL BE ISOLATED OR DISCONNECTED FROM THE SYSTEM.

REVERSE OSMOSIS SYSTEM CIRCULATION PUMP SCHEDULE

DESIGNATION	PUMP TYPE	MANUFACTURER	MODEL	SERVICE	GPM	PUMP HEAD	RPM	ELECTRICAL DATA HP	VOLTS	PH	HZ	DESCRIPTION
CP-1	CIRCULATION PUMP	GRUNFOS	UPS26-99SFC	RO SYSTEM	33 GPM	29 FT	3150	0.167 hp	120 V	1	60 Hz	AT SPEED 3 - STAINLESS STEEL BODY

PLUMBING LEGEND

SYMBOL	DESCRIPTION
——— - ———	DOMESTIC COLD WATER (CW)
——— - - ———	DOMESTIC HOT WATER (HW)
——— - - - ———	DOMESTIC HOT WATER RETURN (HWR)
———SS———	SANITARY WASTE (SS)
- - - - -V- - - - -	SANITARY VENT (V)
———RO———	REVERSE OSMOSIS WATER (RO)
(light line)	EXISTING TO REMAIN
(symbol)	FLOOR DRAIN
(symbol)	FLOOR SINK
(symbol)	GAS METER
(symbol)	ROOF PIPE SUPPORT
(symbol)	PLUG VALVE
(symbol)	GAS PRESSURE REGULATOR
(symbol)	RISE & DROP IN PIPING
C.O. (symbol) C.O.	CLEANOUT
(symbol)	BALL VALVE
(symbol)	CHECK VALVE
(symbol)	UNION
(symbol)	GAS COCK
(symbol)	PRESSURE REDUCING VALVE
(symbol)	PRESSURE RELIEF VALVE
HB (symbol)	HOSE BIBB
(symbol)	NEW CONNECTION TO EXISTING
O.F.C.I.	OWNER FURNISHED CONTRACTOR INSTALLED
B.T.C.	BRANCH TO CONNECTION
A.F.F.	ABOVE FINISHED FLOOR
B.F.F.	BELOW FINISHED FLOOR
B.F.G.	BELOW FINISHED GRADE
EXT. GB.	EXTERIOR GRADE BEAM
FL	FLOWLINE ELEVATION
CO	CLEAN OUT
FCO	FLOOR CLEAN OUT
GCO	GRADE CLEAN OUT
DCO	DOUBLE CLEAN OUT
WCO	WALL CLEAN OUT
VTR	VENT THROUGH ROOF
(E)	EXISTING UTILITIES
D.S.	DOWNSPOUT
(symbol)	SQUARE FEET

NOTE: NOT ALL SYMBOLS SHOWN ARE NECESSARILY USED

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GENERAL PLUMBING NOTES:

1. ALL DIMENSIONS AND FIELD CONDITIONS SHALL BE CHECKED AND VERIFIED BY CONTRACTOR AT THE SITE. THE LOCATION OF ALL NEW PIPING, FIXTURES, EQUIPMENT, LOCATIONS, SIZES, SCALES, AND DIMENSIONS SHALL BE CHECKED AND VERIFIED ON SITE.

2. CONTRACTOR SHALL LAY OUT THEIR WORK BASED ON ACTUAL FIELD MEASUREMENTS AND ACTUAL DIMENSIONS OF EQUIPMENT AND FIXTURS INSTALLED. ALL PIPING AND EQUIPMENT OF ALL TRADES SHALL BE PROPERLY COORDINATED AND SET IN PLACE TO MAINTAIN REQUIRED SERVICE CLEARANCES. ALL INSTALLATIONS SHALL BE SUBJECT TO THE APPROVAL OF THE ARCHITECT.

3. CONTRACTOR SHALL CHANGE THE LOCATION OF NEW PIPING, WHERE REQUIRED, TO MEET FIELD CONDITIONS.

4. CONTRACTOR SHALL SUBMIT COMPLETE PRODUCT DATA ALONG WITH SHOP DRAWINGS. PREPARE AND SUBMIT 1/4" = 1'-0" SCALE PLUMBING PIPING SHOP DRAWINGS. CONTRACTOR SHALL FULLY COORDINATE ALL PIPING SHOP DRAWINGS WITH SHEET METAL SHOP DRAWINGS AND WITH THE WORK OF ALL OTHER TRADES. PRIOR TO SUBMITTAL SHOP DRAWINGS SHALL BE CHECKED FOR OBSTRUCTIONS AND INTERFERENCES, ETC. FAILURE TO SUBMIT SHOP DRAWINGS IN A TIMELY MANNER AS REQUIRED TO KEEP PACE WITH THE CONSTRUCTION SCHEDULE MAY RESULT IN DELAYS, AND POSSIBLE STOPPAGE OF PAYMENT TO THE CONTRACTOR. ADDTIONALLY, NO WORK MAY PROCEED UNTIL SUCH SHOP DRAWINGS ARE SUBMITTED, REVIEWED, AND FOUND TO BE ACCEPTABLE BY THE ARCHITECT AND ENGINEER.

5. REFER TO AVAILABLE STRUCTURAL PLANS FOR EXACT LOCATION OF STRUCTURAL PEIRS, BEAMS, JOISTS AND OTHER STRUCTURAL ELEMENTS. MODIFY PIPE ROUTING AS REQUIRED TO AVOID CONFLICTS WHERE SUCH OCCURS.

6. REFER TO ARCHITECTURAL DRAWINGS FOR THE EXACT LOCATIONS OF ALL WALLS, PARTITIONS, CEILINGS, CEILING HEIGHTS, AND EQUIPMENT/FIXTURES.

7. CONTRACTOR SHALL CONFIRM SCALE OF PLUMBING DRAWINGS BY COMPARISON WITH ARCHITECTURAL DRAWINGS TO VERIFY THE ACCURACY OF ALL TAKE-OFFS MADE DURING THE BIDDING PERIOD.

8. ANY PIPE PENETRATIONS OF CEILINGS, WALLS OR FLOORS SHALL BE RESTORED TO THE FIRE RATINGS INDICATED ON THE ARCHITECTURAL DRAWINGS. FLOOR, WALL AND CEILING PIPING PENETRATIONS SHALL BE PATCHED, SLEEVED, SEALED, AND BE PROVIDED WITH APPROPRIATE ESCUTCHEONS WHERE LOCATED IN FINISHED/EXPOSED SPACES.

9. REFER TO ARCHITECTRUAL DRAWINGS FOR EXACT LOCATION OF FLOOR DRAINS, PLUMBING FIXTURES, & KITCHEN EQUIPMENT.

10. ALL GREASE WASTE AND SANITARY SEWER PIPING THAT RECEIVES A DISCHARGE OF WASTE OR WATER THAT IS 140 DEGREE F. OR GREATER IN TEMPERATURE SHALL BE STANDARD WEIGHT CAST IRON PIPE WITH HUB AND SPIGOT FITTINGS FOR BURIED PIPING (UNDER DIRT EVEN IF IN A CRAWL SPACE) INSTALLATIONS AND NO-HUB FOR ABOVE SLAB INSTALLATIONS OR SUSPENDED ABOVE GROUND IN A CRAWL SPACE, WITHOUT EXCEPTION. EXTEND CAST IRON PIPE TO BE A MINIMUM OF 20' TWENTY LINEAR FEET IN LENGTH BEFORE ALLOWING TRANSITION BACK TO ANOTHER PIPE MATERIAL, OR AFTER CONNECTING TO A MAIN DRAIN LINE.

11. CONTRACTOR SHAL NOT DEVIATE FROM THE CONSTRUCTION DOCUMENTS. ANY DEVIATION SHALL RECEIVE WRITTEN ACCEPTANCE AND APPROVAL FROM THE OWNER AND ARCHITECT IN ADVANCE OF SUCH WORK BEING PERFORMED. SUBMIT SUCH REQUESTS TO THE ARCHITECT AND ENGINEER ALONG WITH THE MONETARY CREDIT, AS APPLICABLE. ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS FOUND ON THE PROJECT THAT DID NOT RECEIVE A LETTER OF ACCEPTANCE AND APPROVAL FROM THE OWNER OR ARCHITECT SHALL BE FULLY REPLACED AND SHALL BE MADE TO BE IN FULL COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS AT THE EXPENSE OF THE CONTRACTOR.

GENERAL DEMOLITION NOTES:

1. THE INFORMATION SHOWN ON THE DEMOLITION DRAWINGS IS NOT TAKEN FROM "AS BUILT" DRAWINGS. CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE PRIOR TO SUBMITTING A BID TO DETERMINE THE GENERAL AMOUNT OF WORK THAT WILL BE REQUIRED. CONTRACTOR SHALL EXAMINE THE EXISTING BUILDING, VERIFY THE GENERAL LOCATION OF ALL EXISTING WORK, AND BECOME INFORMED AS TO THE RELATION TO AND IMPACT ON THE WORK REQUIRED. SUBMISSION OF A BID WILL CONSTITUTE EVIDENCE THAT THE CONTRACTOR HAS INSPECTED THE SITE IN THE FASHION NOTED ABOVE.

2. COORDINATE DEMOLITION WORK WITH BUILDING MAINTENANCE PERSONNEL AND OTHER TRADES PERFORMING WORK IN THE BUILDING PRIOR TO THE REMOVAL OF ANY ITEMS OF EQUIPMENT OR SYSTEMS THAT SHALL AFFECT OTHER SYSTEMS WITHING THE LIMITS OF NEW CONSTRUCTION OR OTHER AREAS OF THE EXISTING BUILDING.

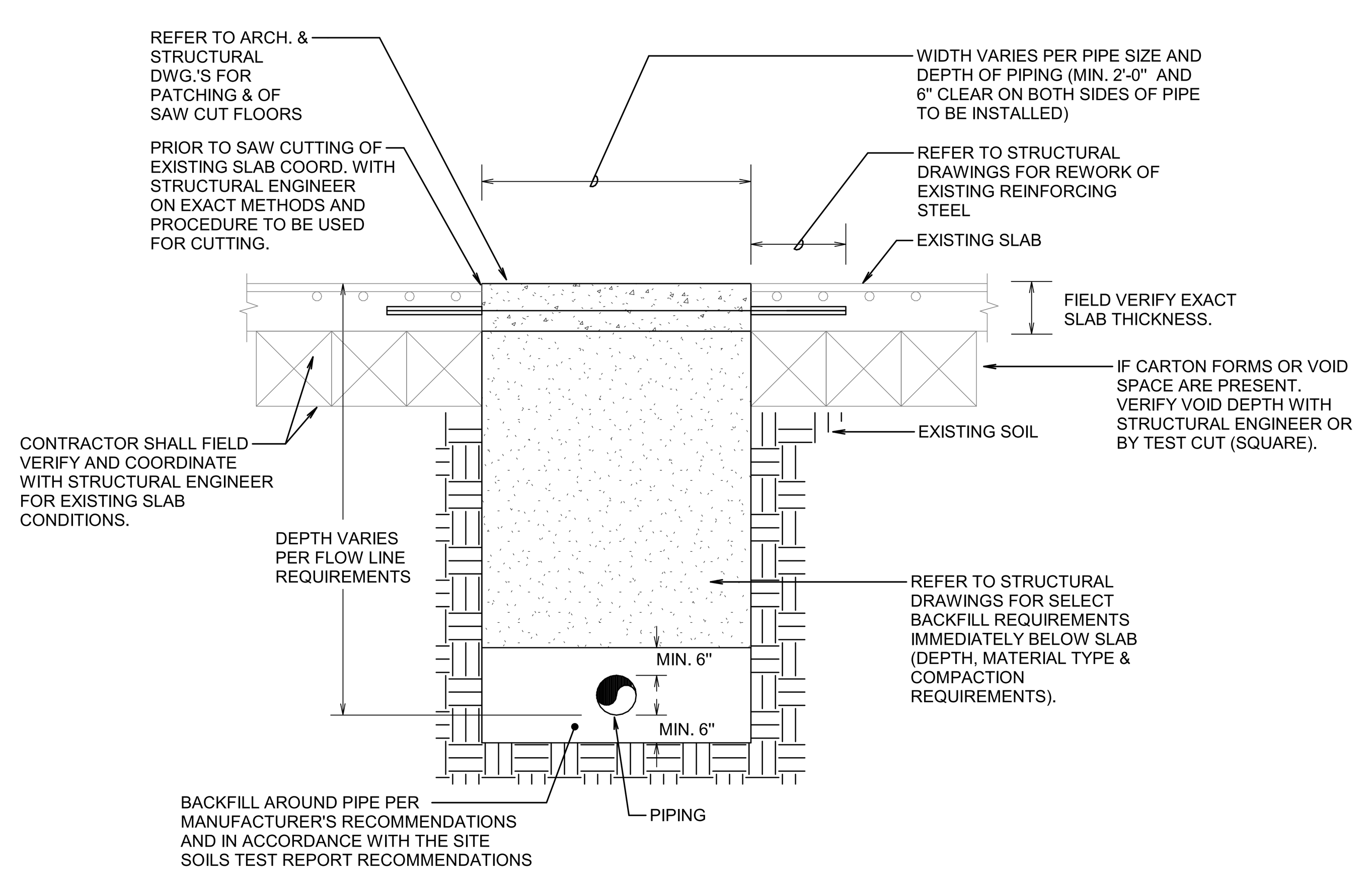
3. WORK SHOWN ON THE DEMOLITION DRAWINGS DOES NOT ACCURATELY REFLECT ALL OF THE EXISTING CONDITIONS OR THE COMPLETE SCOPE OF THE DEMOLITION WORK. THIS WORK SHALL BE BASED ON THE DEMOLITION DRAWINGS, EXISTING DRAWINGS MADE AVAILABLE TO THE CONTRACTOR AND FIEL

4. THE DRAWINGS ONLY REFLECT KNOWN AREAS OF DEMOLITION. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF THE COMPLETE SCOPE OF THE DEMOLTITION WORK.

5. CONTRACTOR SHALL TRACE ALL PIPING BACK TO MAIN RISERS AND/OR SUPPLIES, AND VERIFY THAT PIPING DOES NOT SERVE ANY OTHER FIXTURES TO REMAIN. CONTRACTOR SHALL OBTAIN APPROVAL FROM OWNER'S REPRESENTATIVE PRIOR TO REMOVAL OF PIPING TO BE DEMOLISHED.

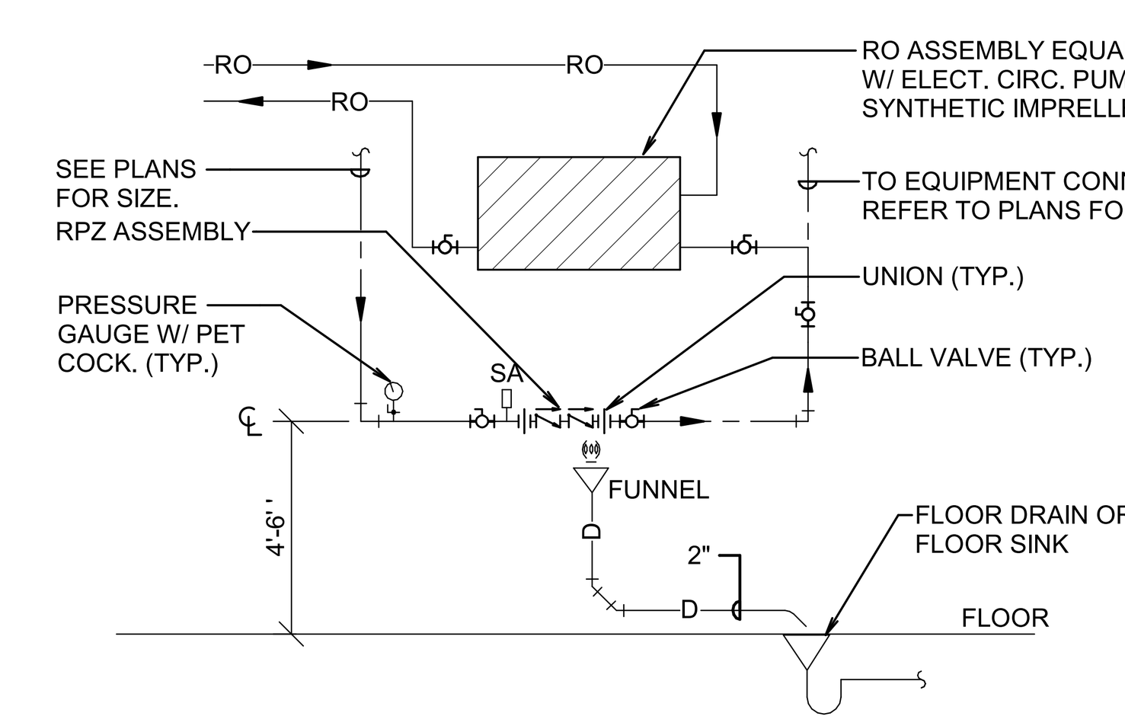
6. FLUSH AND CLEAN ALL EXISTING FLOOR DRAINS, AREAWAY DRAINS, AND RELATED DRAIN PIPING AS NEEDED DURING CONSTRUCTION, AND AT THE COMPLETION OF THE PROJECT, TO PREVENT BLOCKAGE OF THE DRAINS WITH CONSTRUCTION DIRT, TRASH AND DEBRIS.

7. CONTRACTOR SHALL PATCH AND REPAIR ALL WALLS, FLOORS AND CEILINGS TO MATCH EXISTING FINISHES OR PROPOSED NEW FINISHES, AS APPLICABLE, AND AS NECESSARY WHICH ARE AFFECTED BY THE REMOVAL AND/OR REWORK OF PLUMBING FIXTURES AND PIPING.



NOTE: INFORMATION PROVIDED IS NOT INTENDED TO REFLECT THE EXACT SLAB TYPE BUT IS INTENDED FOR GENERAL BACKFILL INFORMATION ONLY. CONTRACTOR SHALL FIELD VERIFY EXISTING SLAB TYPE, THICKNESS, REINFORCING, AND COORDINATE SAW CUTTING REQUIREMENTS WITH THE STRUCTURAL ENGINEER PRIOR TO PERFORMING ANY WORK.

1 EXISTING FOUNDATION UNDERFLOOR PIPING DETAIL
NO SCALE



NOTES:

1. ALL BACKFLOW PREVENTORS SHALL BE TESTED BY AN APPROVED BACKFLOW PREVENTION SPECIALIST PRIOR TO PLACING IN SERVICE. A CUSTOMER SERVICE INSPECTION CERTIFICATE SHALL BE REQUIRED PRIOR TO OBTAINING A CERTIFICATE OF OCCUPANCY PERMIT.

2 REDUCED PRESSURE BACKFLOW PREVENTER DETAIL
NO SCALE

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STATE OF TEXAS — NATHAN P. HART — 93906 — LICENSED PROFESSIONAL ENGINEER — 5/6/22

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OWP PROJECT NO.	DATE OF ISSUE
2022-110-00	04.28.2022

REVISIONS

DELTA	DESCRIPTION	DATE
1	Addendum 2	05/06/2022

PROJECT TEAM	DRAWN BY
ED TEXAS	RWB

PROJECT PHASE
CONSTRUCTION DOCUMENTS

SHEET CONTENTS
PLUMBING SPECIFICATIONS, LEGEND & NOTES

SHEET NO.
P000

FILE PATH: C:\Revit Local Files\2022\22034-Mid ISD Baxter ES Kitchen Serving Line-RWB-r2022_acarrC92QE.rvt
DATE/TIME:5/6/2022 8:50:34 AM
PLOT SCALE: 12" = 1'-0"

GENERAL FIRE SPRINKLER REWORK NOTE:

1. CONTRACTOR SHALL REWORK EXISTING WET SPRINKLER SYSTEM AS REQUIRED TO ACCOMMODATE AREAS OF NEW CONSTRUCTION, INCLUDING ALL AREAS OF RENOVATION, AREAS OF THE EXISTING BUILDING NOT CURRENTLY SPRINKLERED AND ADDITIONS. CONTRACTOR SHALL REWORK THE EXISTING FIRE RISER, FIRE HEADER, FIRE MAIN, DISTRIBUTION PIPING AND BRANCH PIPING AS REQUIRED IN ORDER TO ACCOMMODATE THE RENOVATED AREAS, AREAS OF NEW CONSTRUCTION AND AREAS OF THE BUILDING NOT CURRENTLY SPRINKLERED. RELOCATE AND / OR REPLACE EXISTING SPRINKER MAINS, BRANCH PIPING AND SPRINKLERS AS REQUIRED TO ACCOMMODATE CONSTRUCTION. PROVIDE NEW SPRINKLERS AS NECESSARY FOR COMPLETE COVERAGE. WHERE SPRINKLER PIPING IS REMOVED DISCONNECT & CAP ABOVE CEILING. CONTRACTOR SHALL FIELD VERIFY SCOPE OF WORK PRIOR TO BID SUBMITTAL.

PLUMBING EQUIPMENT ROUGH-IN CONNECTIONS ARE BASED ON ARCHITECT-PROVIDED EQUIPMENT SELECTIONS AND CUTSHEETS. CONTRACTOR TO REVIEW CUTSHEETS, CONFIRM CONNECTION REQUIREMENTS, AND FIELD VERIFY FIELD CONDITIONS AND REQUIREMENTS PRIOR TO PLUMBING ROUGH-IN. CONTRACTOR SHALL SUBMIT ANY AND ALL REQUIRED PLUMBING ROUGH-IN CONNECTION CHANGES TO ENGINEER PRIOR TO PLUMBING ROUGH-IN.

NOTES BY SYMBOL '◯':

1. SAWCUT EXISTING PIPING TO ACCOMMODATE NEW RO SYSTEM PIPING BELOW GRADE. ROUTE RO PIPING IN 3" PVC SLEEVE BELOW FLOOR. REFER TO DETAIL "01" ON SHEET P000.
2. RO ASSEMBLY AND RPZ. MOUNT RO ASSEMBLY ABOVE RPZ MAX 6'-0" AFF. REFER TO DETAIL "02" ON SHEET P000 FOR RPZ DETAIL. COORDINATE FINAL APPROVED LOCATION WITH ARCHITECT.
3. EXISTING BRAISING PAN AND STEAMER TO BE REPLACED. REWORK EXISTING DOMESTIC WATER AND DRAIN PIPING TO ACCOMMODATE NEW EQUIPMENT.
4. EXISTING COMBI OVEN TO BE REPLACED. REWORK EXISTING DOMESTIC WATER AND DRAIN PIPING TO ACCOMMODATE NEW EQUIPMENT.
5. EXISTING THREE COMPARTMENT SINK TO BE REMOVED AND RETURNED TO OWNER. REMOVE ASSOCIATED EXISTING SANITARY SEWER PIPING AND CAP BELOW FLOOR. REMOVE ASSOCIATED EXISTING VENT AND DOMESTIC WATER PIPING AND CAP ABOVE CEILING AT WATER MAIN.
6. CONTRACTOR SHALL INSTALL LOOSE IN-LINE FILTER AT ALL EQUIPMENT AS REQUIRED. REFER TO ARCHITECTURAL DRAWINGS AND EQUIPMENT CUTSHEETS FOR SCOPE OF WORK. (1)

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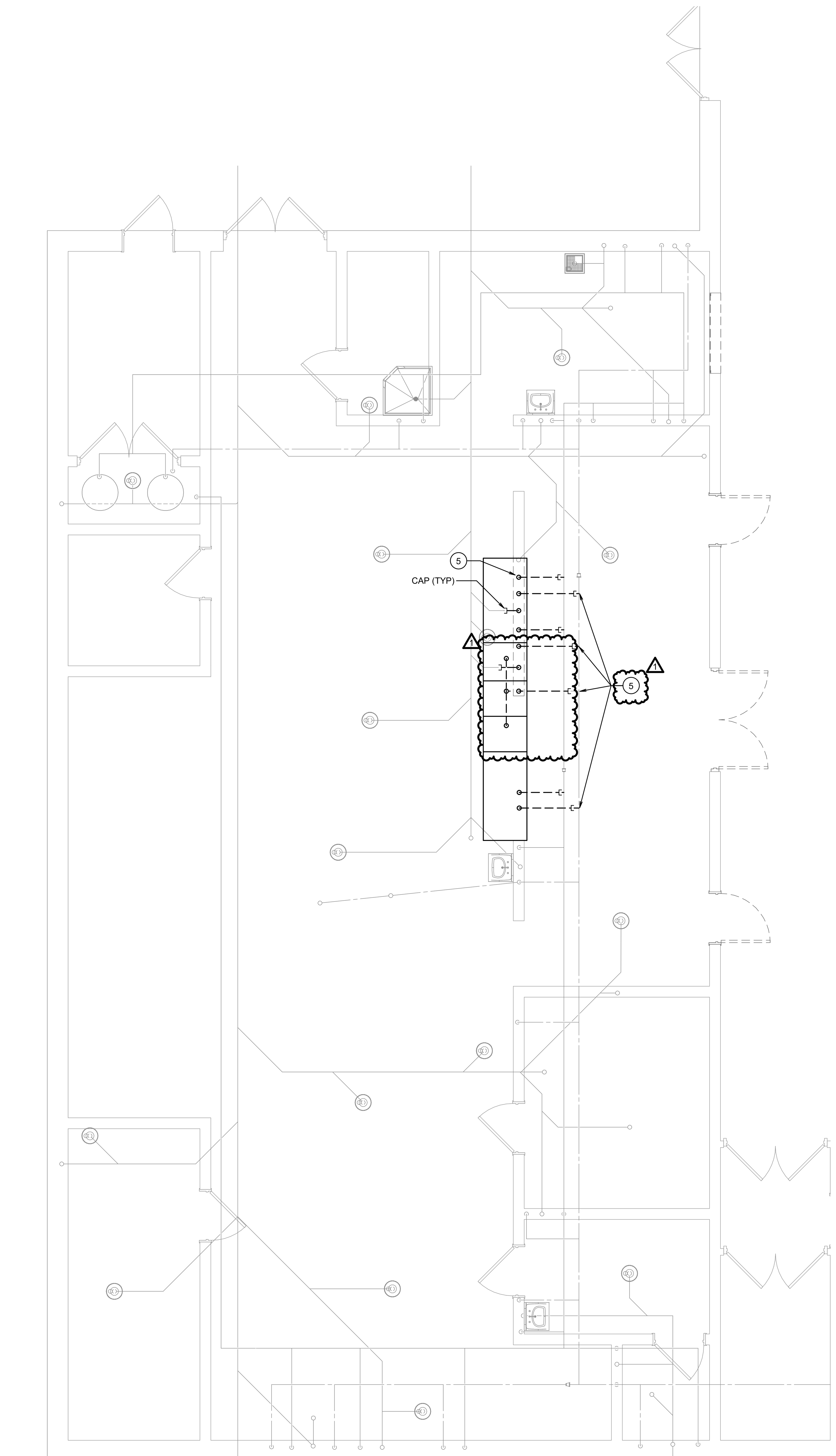
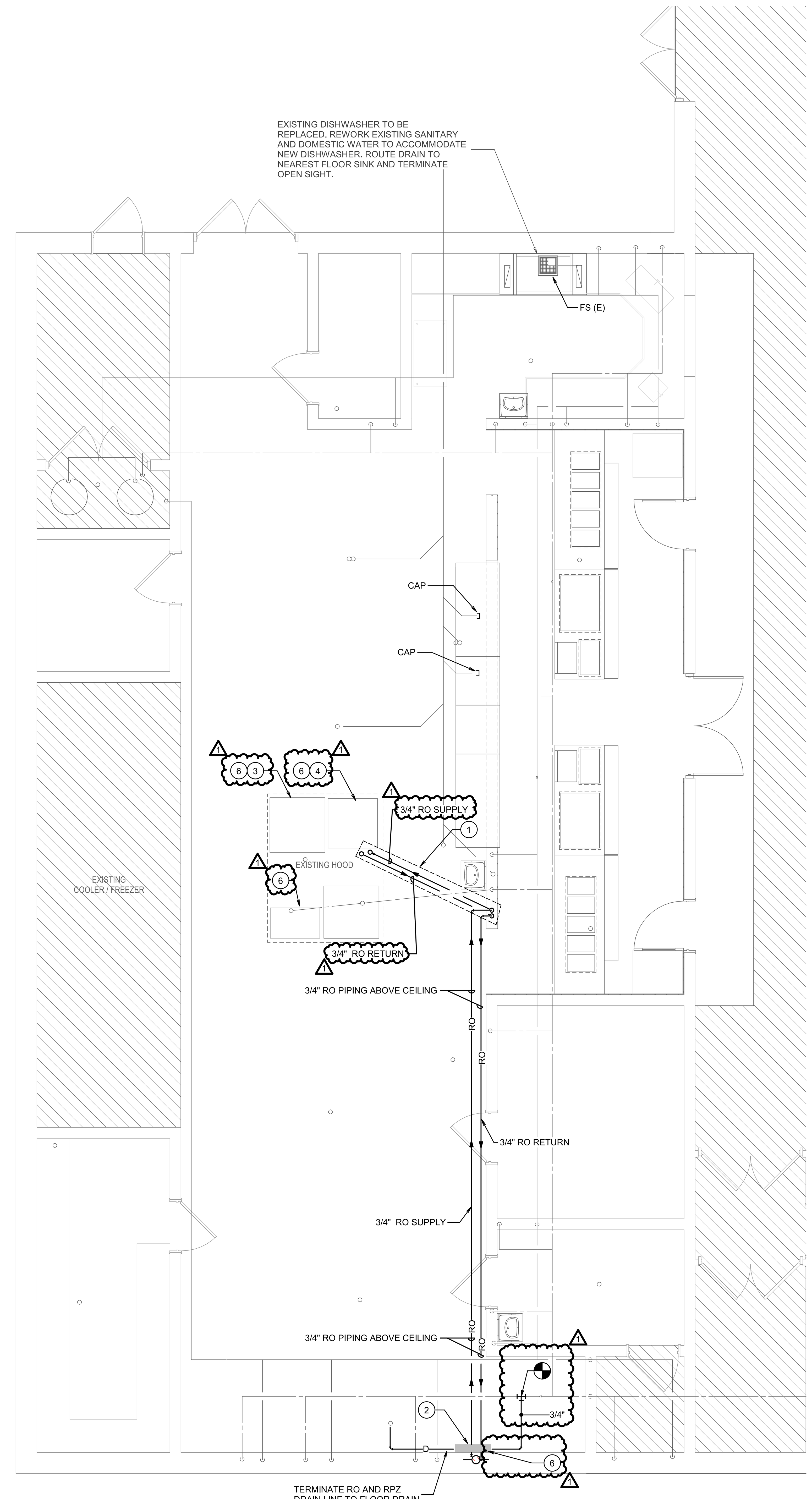


PLAN NORTH TRUE NORTH

1 DEMOLITION FLOOR PLAN - LEVEL 1 - OVERALL - PLUMBING
SCALE: 1/4" = 1'-0"



PLAN NORTH TRUE NORTH

2 FLOOR PLAN - LEVEL 1 - OVERALL - PLUMBING
SCALE: 1/4" = 1'-0"

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T E BAXTER ELEMENTARY SCHOOL

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OWP PROJECT NO.	DATE OF ISSUE
2022-110-00	04.28.2022

REVISIONS

DELTA	DESCRIPTION	DATE
1	Addendum 2	05/06/2022

PROJECT TEAM	DRAWN BY
ED TEXAS	Author

PROJECT PHASE
CONSTRUCTION DOCUMENTS

SHEET CONTENTS
FLOOR PLAN - LEVEL 1 - PLUMBING

SHEET NO.
P100

GENERAL DEMOLITION NOTES:

1. REFER TO GENERAL DEMOLITION NOTES ON SHEET E000.

DEMOLITION NOTES BY SYMBOL '⬡':

1. DISCONNECT AND REMOVE POWER FOR BOOSTER HEATER ALONG WITH ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE.
2. DISCONNECT AND REMOVE POWER FOR EXISTING DISHWASHER ALONG WITH ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE.
3. DISCONNECT AND REMOVE POWER FOR EXISTING DISPOSER ALONG WITH ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE.
4. DISCONNECT AND REMOVE POWER FOR EXISTING SINK HEATER ALONG WITH ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE.
5. DISCONNECT AND REMOVE POWER FOR EXISTING PASS THRU HEATED CABINET ALONG WITH ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE.
6. DISCONNECT AND REMOVE POWER FOR EXISTING PASS THRU REFRIGERATED CABINET ALONG WITH ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE.
7. DISCONNECT AND REMOVE POWER FOR EXISTING BRAISING PAN ALONG WITH ASSOCIATED WIRE BACK TO SOURCE.

DEMOLITION NOTES BY SYMBOL '⬡':

8. DISCONNECT AND REMOVE POWER FOR EXISTING COMBI DOUBLE OVEN ALONG WITH ASSOCIATED WIRE BACK TO SOURCE.
9. DISCONNECT AND REMOVE POWER FOR EXISTING CONVECTION OVEN ALONG WITH ASSOCIATED WIRE AND CONDUIT BACK TO SOURCE.
10. DISCONNECT AND REMOVE POWER FOR EXISTING CONVECTION STEAMER ALONG WITH ASSOCIATED WIRE BACK TO SOURCE.
11. DISCONNECT AND REMOVE POWER FOR EXISTING SERVING LINE ALONG WITH ASSOCIATED WIRE BACK TO SOURCE.
12. TEMPORARILY SUPPORT ALL CEILING MOUNTED FIRE ALARM DEVICES AND OTHER LOW VOLTAGE DEVICES DURING THE REPLACEMENT OF EXISTING CEILING. PROTECT DEVICES FROM DEBRIS AND DAMAGE DURING RENOVATION. REINSTALL ON NEW CEILING.

GENERAL POWER NOTES:

1. REFER TO GENERAL POWER NOTES ON SHEET E000.

NOTES BY SYMBOL '◯':

1. PROVIDE NEW STAINLESS STEEL DISCONNECT SWITCHES.
2. REUSE EXISING FLOOR STUB-UP CONDUIT FOR NEW KITCHEN EQUIPMENT.
3. TEMPORARILY SUPPORT ALL CEILING MOUNTED FIRE ALARM DEVICES AND OTHER LOW VOLTAGE DEVICES DURING THE REMOVAL AND REPLACEMENT OF EXISTING CEILING. PROTECT DEVICES FROM DEBRIS AND DAMAGE DURING RENOVATION. REINSTALL ON NEW CEILING.
4. POWER FOR NEW 50A/3P MAIN CIRCUIT BREAKER LOAD CENTER FOR NEW SERVING LINE POWER. SERVING LINE LOAD CENTER SHALL BE SUPPLIED WITH SERVING LINE EQUIPMENT. COORDINATE EXACT LOCATION OF SERVING LINE LOAD CENTER WITH KITCHEN EQUIPMENT SUPPLIER.
5. SAW CUT EXISTING CONCRETE SLAB FOR NEW SERVING LINE POWER. CONTRACTOR SHALL XRAY CONCRETE SLAB AND COORDINATE WITH EXISTING UTILITES.

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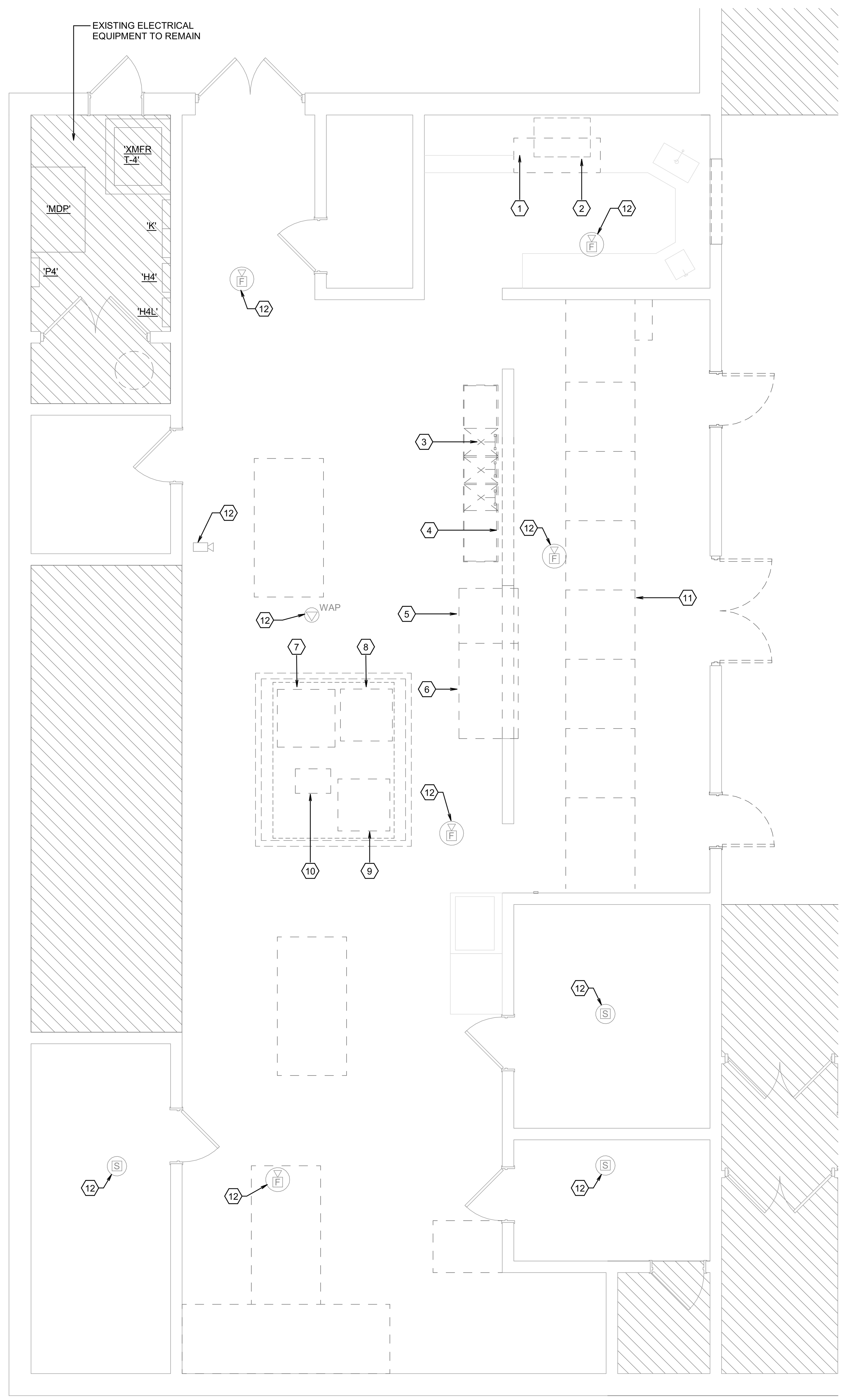

2 DEMOLITION FLOOR PLAN - LEVEL 1 - OVERALL - ELECTRICAL

SCALE: 1/4" = 1'-0"

1 FLOOR PLAN - LEVEL 1 - OVERALL - ELECTRICAL

SCALE: 1/4" = 1'-0"

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State of Texas — DARRELL G. WILLIAMS — 99230 — LICENSED PROFESSIONAL ENGINEER — 6 May 2022

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OWP PROJECT NO.	DATE OF ISSUE
2022-110-00	04.28.2022

REVISIONS

DELTA	DESCRIPTION	DATE
1	Addendum 2	05/06/2022

PROJECT TEAM	DRAWN BY
ED TEXAS	RWB

PROJECT PHASE
CONSTRUCTION DOCUMENTS

SHEET CONTENTS
FLOOR PLAN - LEVEL 1 - ELECTRICAL

SHEET NO.
E100

RWB Consulting Engineers
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TX Firm #F-2176 (972) 788-4222 Project 22034-00

PANEL: K (EXISTING)

Location: MECH 301 **Supply From:** **Mounting:** SURFACE **Enclosure:** NEMA 1
Volts: 120/208 Wye **Phases:** 3 **Wires:** 4 **Sections:** 2
A.I.C. Rating: 10,000 A.I.C. **Mains Type:** MLO **Mains Rating:** 600.0 A

CKT	REM	Load Name	BKR	Poles	Wire Size	A		B		C		Wire Size	Poles	BKR	Load Name	REM	CKT
1	--	EXISTING LOAD	100	2	--	0	840						1	20	NEW PASS THRU...		2
3								0	1643				2	25	NEW DOUBLE ROLL THRU HEATED...		4
5	--	SPACE	--	1	--					--	1643						6
7						0	0										8
9	--	EXISTING LOAD	15	3	--			0	0			--	3	40	EXISTING LOAD	--	10
11										0	0						12
13						0	0					--	1	20	EXISTING LOAD	--	14
15	--	EXISTING LOAD	15	3	--			0	0			--	2	60	EXISTING LOAD	--	16
17										0	0						18
19						4080	2667										20
21	2	Power to (2) New Kitchen Serving Lines	100	3	4#2,1#8G-1 1/4"C.			4080	2667			3#8,1#10G-EXISTING CONDUIT	3	40	CONVECTION STEAMER	2,5	22
23										4080	2667						24
25						0	0					--	1	20	EXISTING LOAD	--	26
27	--	EXISTING LOAD	40	3	--			0	0			--	1	20	EXISTING LOAD	--	28
29										0	0	--	1	20	EXISTING LOAD	--	30
31	--	EXISTING LOAD	20	1	--	0	0										32
33	--	EXISTING LOAD	20	1	--			0	0			--	3	20	EXISTING LOAD	--	34
35	--	EXISTING LOAD	20	1	--					0	0						36
37						5000	0										38
39	2	NEW DISHWASHER	60	3	REUSE EXISTING			5000	0			--	3	15	EXISTING LOAD	--	40
41										5000	0						42
43						10064	--					--	1	--	SPACE	--	44
45	2	NEW 30KW BOOSTER HEATER	90	3	3#3,1#8G-1-1/4"C			10064	0			--	2	80	EXISTING LOAD	--	46
47										10064	0						48
49	--	EXISTING LOAD	50	2	--	0	0					--	1	20	EXISTING LOAD	--	50
51								0	0			--	1	20	EXISTING LOAD	--	52
53	--	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	--	54
55	--	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	--	56
57	--	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	--	58
59	--	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	--	60
61	--	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	--	62
63	--	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	--	64
65	--	EXISTING LOAD	20	1	--					0	0	--	1	40	EXISTING LOAD	--	66
67	--	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	--	68
69		NEW PASS THRU...	20	1				840	0			--	1	20	EXISTING LOAD	--	70
71	--	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	--	72
73	--	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	--	74
75	--	EXISTING LOAD	40	1	--			0	0			--	1	20	EXISTING LOAD	--	76
77	--	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	--	78
79	--	EXISTING LOAD	50	2	--	0	0					--	1	20	EXISTING LOAD	--	80
81								0	0			--	1	20	EXISTING LOAD	--	82
83	2	NEW DOUBLE ROLL THRU HEATED...	25	2	2#10,1#1-G-3/4"C.					1643	0	--	2	20	EXISTING LOAD	--	84
85						1643	0										86
87								0	0								88
89	--	EXISTING LOAD	30	3	--					0	0	--	3	60	EXISTING LOAD	--	90
91						0	0										92
					Total Load:	24,293 VA		24,293 VA		25,096 VA							
					Total Amps:	202.4 A		202.4 A		209.1 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Kitchen Equipment	72,843 VA	65.00%	47,348 VA		
Receptacle	840 VA	100.00%	840 VA	Total Conn. Load:	73,683 VA
				Total Est. Demand:	48,188 VA
				Total Conn. Current:	204.5 A
				Total Est. Demand Current:	133.8 A

General Notes:
A. PROVIDE FEED-THROUGH LUGS FOR FUTURE EXPANSION.
B. PROVIDE FULL SIZED PHASE, NEUTRAL AND GROUND BUSSES.
C. THE CONTRACTOR SHALL UPDATE ROOM NAMES AND ROOM NUMBERS ON FINAL PANEL SCHEDULE TO REFLECT FINAL BUILDING CONDITIONS.
Remarks:
1. PROVIDE GFCI CIRCUIT BREAKER.
2. PROVIDE CIRCUIT BREAKER AND / OR FUSES PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
3. BRANCH CIRCUIT SHALL BE 2 #12 & #12 GROUND IN 3/4" CONDUIT.
4. BRANCH CIRCUIT ROUTED THROUGH AND CONTROLLED BY SECONDARY CONTACTOR.
5. PROVIDE WITH SHUNT TRIP BREAKER.
6. PROVIDE CIRCUIT BREAKER CAPABLE OF BEING LOCKED IN THE OFF POSITION.

PANEL: P4 (EXISTING)

Location: MECH 301 **Supply From:** **Mounting:** SURFACE **Enclosure:** NEMA 1
Volts: 480/277 Wye **Phases:** 3 **Wires:** 4 **Sections:** 1
A.I.C. Rating: 14,000 A.I.C. **Mains Type:** MCB **Mains Rating:** 400.0 A

CKT	REM	Load Name	BKR	Poles	Wire Size	A		B		C		Wire Size	Poles	BKR	Load Name	REM	CKT
1						0	0										2
3	--	EXISTING LOAD	20	3	--			0	0			--	3	20	EXISTING LOAD	--	4
5										0	0						6
7						0	0										8
9	--	EXISTING LOAD	20	3	--			0	0			--	3	20	EXISTING LOAD	--	10
11										0	0						12
13						0	0										14
15	--	EXISTING LOAD	30	3	--			0	0			--	3	30	EXISTING LOAD	--	16
17										0	0						18
19						10388	8333										20
21	2,5	NEW COMBI OVEN	50	3	3#6,1#10G-1"C			10388	8333			3#8,1#10G-3/4"C	3	40	NEW DOUBLE CONV OVEN	2,5	22
23										10388	8333						24
25	--	SPACE	--	1	--	--	--					--	1	--	SPACE	--	26
27	--	SPACE	--	1	--			--	--			--	1	--	SPACE	--	28
					Total Load:	18,721 VA		18,721 VA		18,721 VA							
					Total Amps:	67.6 A		67.6 A		67.6 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Kitchen Equipment	56,163 VA	100.00%	56,163 VA		
				Total Conn. Load:	56,163 VA
				Total Est. Demand:	56,163 VA
				Total Conn. Current:	67.6 A
				Total Est. Demand Current:	67.6 A

General Notes:
A. PROVIDE FEED-THROUGH LUGS FOR FUTURE EXPANSION.
B. PROVIDE FULL SIZED PHASE, NEUTRAL AND GROUND BUSSES.
C. THE CONTRACTOR SHALL UPDATE ROOM NAMES AND ROOM NUMBERS ON FINAL PANEL SCHEDULE TO REFLECT FINAL BUILDING CONDITIONS.
Remarks:
1. PROVIDE GFCI CIRCUIT BREAKER.
2. PROVIDE CIRCUIT BREAKER AND / OR FUSES PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
3. BRANCH CIRCUIT SHALL BE 2 #12 & #12 GROUND IN 3/4" CONDUIT.
4. BRANCH CIRCUIT ROUTED THROUGH AND CONTROLLED BY SECONDARY CONTACTOR.
5. PROVIDE WITH SHUNT TRIP BREAKER.
6. PROVIDE CIRCUIT BREAKER CAPABLE OF BEING LOCKED IN THE OFF POSITION.

PANEL: H4 (EXISTING)

Location: MECH 301 **Supply From:** **Mounting:** SURFACE **Enclosure:** NEMA 1
Volts: 480/277 Wye **Phases:** 3 **Wires:** 4 **Sections:** 1
A.I.C. Rating: 14,000 A.I.C. **Mains Type:** MLO **Mains Rating:** 100.0 A

CKT	REM	Load Name	BKR	Poles	Wire Size	A		B		C		Wire Size	Poles	BKR	Load Name	REM	CKT
1						--	0										2
3	--	SPACE	--	3	--			--	0			--	3	70	EXISTING LOAD	--	4
5										--	0						6
7						0	0					--	1	20	EXISTING LOAD	--	8
9	--	EXISTING LOAD	40	3	--			0	0			--	1	20	EXISTING LOAD	--	10
11										0	0	--	1	20	EXISTING LOAD	--	12
13	--	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	--	14
15	--	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	--	16
17	--	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	--	18
19	--	EXISTING LOAD	20	1	--	0	0					--	1	20	EXISTING LOAD	--	20
21	--	EXISTING LOAD	20	1	--			0	0			--	1	20	EXISTING LOAD	--	22
23	--	EXISTING LOAD	20	1	--					0	0	--	1	20	EXISTING LOAD	--	24
					Total Load:	0 VA		0 VA		0 VA							
					Total Amps:	0.0 A		0.0 A		0.0 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn. Current:	0.0 A
				Total Est. Demand Current:	0.0 A

General Notes:
A. PROVIDE FEED-THROUGH LUGS FOR FUTURE EXPANSION.
B. PROVIDE FULL SIZED PHASE, NEUTRAL AND GROUND BUSSES.
C. THE CONTRACTOR SHALL UPDATE ROOM NAMES AND ROOM NUMBERS ON FINAL PANEL SCHEDULE TO REFLECT FINAL BUILDING CONDITIONS.
Remarks:
1. PROVIDE GFCI CIRCUIT BREAKER.
2. PROVIDE CIRCUIT BREAKER AND / OR FUSES PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
3. BRANCH CIRCUIT SHALL BE 2 #12 & #12 GROUND IN 3/4" CONDUIT.
4. BRANCH CIRCUIT ROUTED THROUGH AND CONTROLLED BY SECONDARY CONTACTOR.
5. BRANCH CIRCUIT ROUTED THROUGH AND CONTROLLED BY UTILITY LAB CONTROLLER.
6. PROVIDE CIRCUIT BREAKER CAPABLE OF BEING LOCKED IN THE OFF POSITION.

PANEL: H4L (EXISTING)

Location: MECH 301 **Supply From:** **Mounting:** SURFACE **Enclosure:** NEMA 1
Volts: 480/277 Wye **Phases:** 3 **Wires:** 4 **Sections:** 1
A.I.C. Rating: 14,000 A.I.C. **Mains Type:** MLO **Mains Rating:** 100.0 A

CKT	REM	Load Name	BKR	Poles	Wire Size	A		B		C		Wire Size	Poles	BKR	Load Name	REM	CKT
1	--	SPACE	--	1	--	--	--					--	1	--	SPACE	--	2
3	--	SPACE	--	1	--			--	--			--	1	--	SPACE	--	4
5	--	SPACE	--	1	--					--	--	--	1	--	SPACE	--	6
7						4000	0										8
9	2,5	NEW TILT BRAISING PAN	30	3	3#10,1#10G-EXISTING CONDUIT			4000	0			--	3	30	EXISTING LOAD	--	10
11										4000	0						12
13	--	SPACE	--	1	--	--	--					--	1	--	SPACE	--	14
15	--	SPACE	--	1	--			--	--			--	1	--	SPACE	--	16
17	--	SPACE	--	1	--					--	--	--	1	--	SPACE	--	18
19	--	SPACE	--	1	--	--	--					--	1	--	SPACE	--	20
					Total Load:	4,000 VA		4,000 VA		4,000 VA							
					Total Amps:	14.4 A		14.4 A		14.4 A							

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Kitchen Equipment	12,000 VA	100.00%	12,000 VA		
				Total Conn. Load:	12,000 VA
				Total Est. Demand:	12,000 VA
				Total Conn. Current:	14.4 A
				Total Est. Demand Current:	14.4 A

General Notes:
A. PROVIDE FEED-THROUGH LUGS FOR FUTURE EXPANSION.
B. PROVIDE FULL SIZED PHASE, NEUTRAL AND GROUND BUSSES.
C. THE CONTRACTOR SHALL UPDATE ROOM NAMES AND ROOM NUMBERS ON FINAL PANEL SCHEDULE TO REFLECT FINAL BUILDING CONDITIONS.
Remarks:
1. PROVIDE GFCI CIRCUIT BREAKER.
2. PROVIDE CIRCUIT BREAKER AND / OR FUSES PER EQUIPMENT MANUFACTURER'S SPECIFICATIONS.
3. BRANCH CIRCUIT SHALL BE 2 #12 & #12 GROUND IN 3/4" CONDUIT.
4. BRANCH CIRCUIT ROUTED THROUGH AND CONTROLLED BY SECONDARY CONTACTOR.
5. PROVIDE WITH SHUNT TRIP BREAKER.
6. PROVIDE CIRCUIT BREAKER CAPABLE OF BEING LOCKED IN THE OFF POSITION.

LIGHTING FIXTURE SCHEDULE

Type	Description	Manufacturer	Model	Lamp	Voltage	Wattage	Mounting
A1	2X4 LED ACRYLIC LENS, DOUBLE GASKETING, 0-10V DIMMING, DOUBLE GASKETING, 5600 LUMENS.	METALUX	24GRFA-LD5-42-A125-UNV-835-CD1-G3-U -INVERTED LENS	LED	MVOLT	45 W	RECESSED
A1E	SAME AS TYPE 'A1' EXCEPT WITH EMERGENCY BATTERY PACK	METALUX	24GRFA-LD5-42-A125-UNV-835-CD1-G3-U-EL14W -INVERTED LENS	LED	MVOLT	45 W	RECESSED
X1	LED EXIT SIGN, SINGLE FACE, DIE-CAST ALUMINUM HOUSING	SURE-LITES	CX71WHSD	LED	MVOLT	3 W	CEILING/WALL

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STATE OF TEXAS
DARRELL G. WILLIAMS
99230
LICENSED
PROFESSIONAL ENGINEER
6 May 2022

T E BAXTER ELEMENTARY SCHOOL
KITCHEN RENOVATION
1050 PARK PLACE BLVD.
MIDLOTHIAN, TX 76065

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OWP PROJECT NO.	DATE OF ISSUE
2022-110-00	04.28.2022

REVISIONS

DELTA	DESCRIPTION	DATE
1	Addendum 2	05/06/2022

PROJECT TEAM	DRAWN BY
ED TEXAS	RWB

PROJECT PHASE
CONSTRUCTION DOCUMENTS

SHEET CONTENTS
LIGHT FIXTURE & PANEL SCHEDULES

SHEET NO.
E700