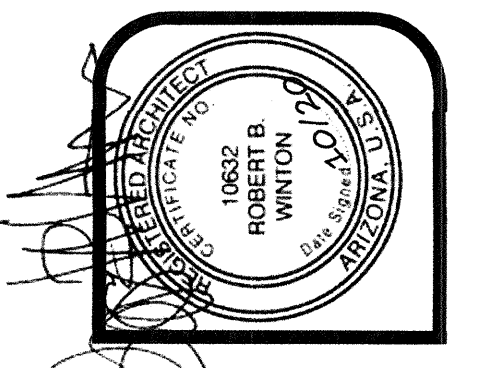


LIN'S GRAND BUFFET

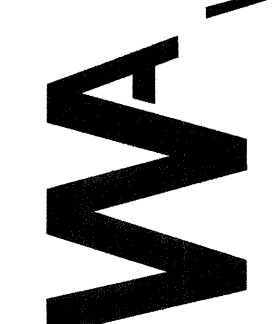
HWY 287 AT PEARL RD.

CASA GRANDE, ARIZONA

LOGOS BUILDERS SOUTHWEST



winton architects, inc.
 Phoenix, Az. 85014
 1435 E. Rancho Drive
 (602) 230-9778
 wintonarch@gmail.com



REMODEL FOR RESTAURANT
 1564 E. FLORENCE BLVD.
 CASA GRANDE, ARIZONA
 LOGOS BUILDERS SOUTHWEST

job no. 20118
 drawn LB
 approved RBW
 date 7/10/20

revisions

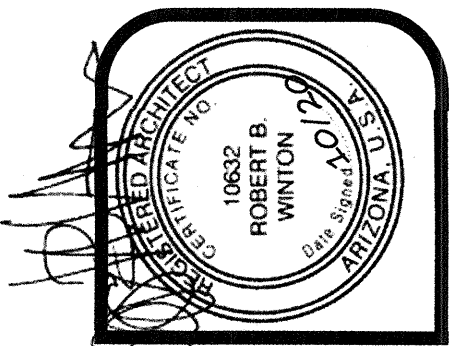
COVER
 47

GENERAL CONSTRUCTION DOCUMENT NOTES

1. The contractor or sub contractor will inspect the premises prior to his commencing work to check existing working conditions. Should contractor or subcontractor find conditions which he believes would impede his work, then such conditions must be reported immediately to the architect. Failure to so advise will constitute notice that the contractor is fully satisfied and that he intends to perform his obligations with no allowance either in time or money for any impediments to his work.
2. Contractor shall verify all dimensions and conditions in field. If dimensional error occurs or conditions not covered on the drawings is encountered, contractor shall notify the architect before commencing that portion of the work.
3. Details, notes and finishes shall be applicable to all typical conditions whether or not referenced at all places.
4. The contractor shall take all necessary precautionary measures to protect the public and adjacent properties from damages throughout construction. He shall meet the latest requirements of the United States Department of Labor Occupational Safety and Health Standards and comply with: the Manual of Accident Prevention in Construction; all applicable safety and sanitary laws, regulations and ordinances; and any safety rules or procedures established by the Owner for the project.
5. The contractor is exclusively responsible for loss or expense resulting from injury on the project site. He assumes all risks in the performance of the work and is responsible for supervision, materials, equipment and labor required to implement the plans and specifications.
6. The contractor is solely responsible for supervision, safety, administration and all phases of its contract. He is also responsible for scheduling, coordinating, management and administration or sub consultants.
7. The contractor shall verify any new mechanical unit loads at roof and/or suspended below and their locations. Notify the architect of any changes in size or location.
8. The contractor shall verify the location of existing utilities and protect the same.
9. All work shall comply with all applicable codes and ordinances.
10. All manufactured articles, materials and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned in accordance with the manufacturer's written specification or instruction unless hereinafter specified to the contrary.
11. Dimensions take precedence over scale or construction documents.
12. All work shall be executed in a neat and workmanlike manner, acceptable to Owner.
13. When work not specifically called out is required to complete the project, it shall be provided and be of the best materials and workmanship.
14. Contractor shall guarantee all workmanship and materials for a period of one year from the date of substantial completion (in writing).
15. Unless otherwise specifically noted, the contractor shall provide and pay for all labor, materials, equipment, tools, construction equipment and machinery, transportation, and other facilities and services necessary for proper execution and completion of the work.
16. The contractor shall pay for all fees, permits, etc. necessary for proper completion of work. (U.N.O.)
17. The contractor warrants to the owner and the architect that all materials and equipment furnished under this contract will be new unless otherwise specified, and that all work will be good quality, free from faults and defects and in conformance with the construction documents. All work not conforming to these standards may be considered defective. It is understood that no inferior or non-conforming work or materials will be accepted whether discovered at the time they are incorporated in the work or at any time before or after final acceptance. If required by the architect, the contractor shall furnish satisfactory evidence as to the kind and quality of materials and equipment.
18. The warranties and guarantees provided in the construction documents shall be in addition to and not in limitation of any other warranty or guaranty or remedy required by law or by the construction documents.
19. The contractor is to provide warning signs and lights, barricades, railings and other safeguards.
20. The design professional's inspection for compliance with the plans and specifications shall NOT be deemed supervision or control of construction means or methods employed by the contractor or any subcontractor.

SCHEDULE OF SHEETS

Cover	General Construction Notes, Schedule of Sheets
SP-1	Site Plan, Project Data
D-1	Demolition Plan
A-1	Foundation Plan
A-2	Floor Plan
A-2.1	Overall Floor Plan, Keynotes
A-3	Exterior Elevations
A-4	Building Sections
A-4.1	Building Sections
S-1	General Structural Notes
S-2	Footing Details
S-3	Foundation Plan
M-1	Mechanical Floor Plan
M-2	Mechanical Notes, Schedules
P-1	Plumbing Floor Plan-Waste, Vent piping
P-2	Plumbing Floor Plan- Water Piping
P-3	Plumbing Floor Plan- Gas Piping
P-4	Waste and Vent Diagram, Notes
E-0.0	Electrical Specifications
E-0.1	Electrical Equipment Requirements
E-1.0	Electrical Power Plan
E-2.0	Electrical Lighting Plan
E-3.0	Electrical HVAC Plan
E-4.0	Panel Board Schedule
E-5.0	One Line Diagram
FS1.0	Equipment Floor Plan
FS1.1	Equipment Schedule
FS1.2	Equipment Schedule
FS2.0	Plumbing Rough In Plan
FS2.1	Plumbing Rough In Plan
FS2.2	Plumbing Rough In Plan
FS2.3	Plumbing Rough In Plan
FS3.0	Electrical Rough In Plan
FS4.0	Mechanical Rough In Plan
FS4.1	Mechanical Specifications
FS4.2	Mechanical Specifications
FS4.3	Mechanical Specifications
FS4.4	Mechanical Specifications
FS4.5	Mechanical Specifications
FS4.6	Mechanical Specifications
FS4.7	Mechanical Specifications
FS4.8	Mechanical Specifications
FS4.9	Mechanical Specifications
FS4.10	Mechanical Specifications
FS4.11	Mechanical Specifications
FS5.0	Special Conditions Plan
FS6.0	Walk In Specifications



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WA

REMODEL FOR RESTAURANT
 HWY 287 AT PEARL RD.
 CASA GRANDE, ARIZONA
 LOGOS BUILDERS SOUTHWEST

job no. 20118
 drawn LB
 approved RBW
 date 7/10/20

revisions
 OWNER 10/23/20
 OWNER 1/18/21

SP-1

PROJECT DATA

ADDRESS: 1564 E. Florence Blvd
 ZONING: PAD
 CONSTRUCTION TYPE: VB, AFES
 ALLOWABLE AREA: 24,000 SF
 OCCUPANCY: A-3
 BUILDING HEIGHT: 26'-4"
 BUILDING AREA: Existing= 5132 SF
 New Addition= 329 SF
 Total= 5,461 SF

PARKING REQUIRED: 90% x 5461=4915/100= 50 Spaces

PARKING PROVIDED: 62 Spaces

ACCESSIBLE SPACES REQUIRED: 3 Spaces

ACCESSIBLE SPACES PROVIDED: 3 Spaces

SEATING CAPACITY: TBD

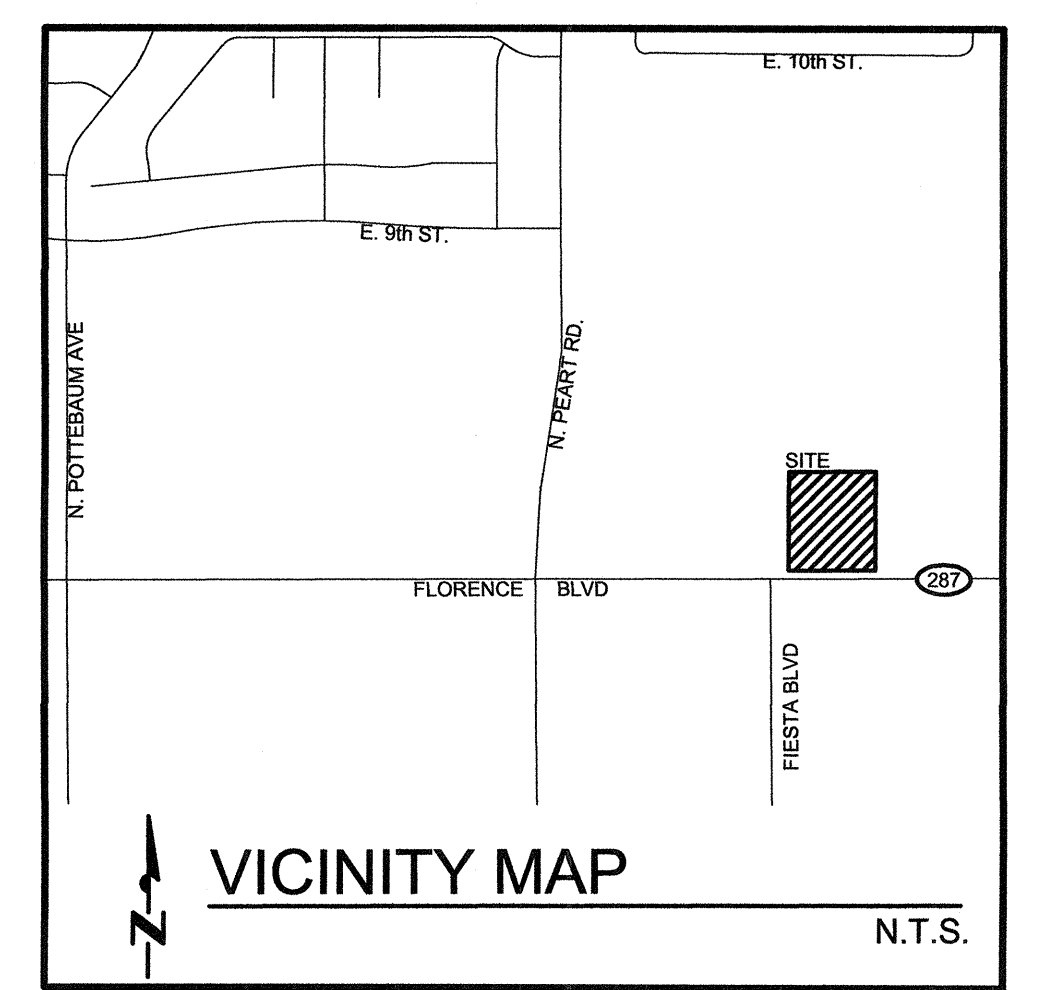
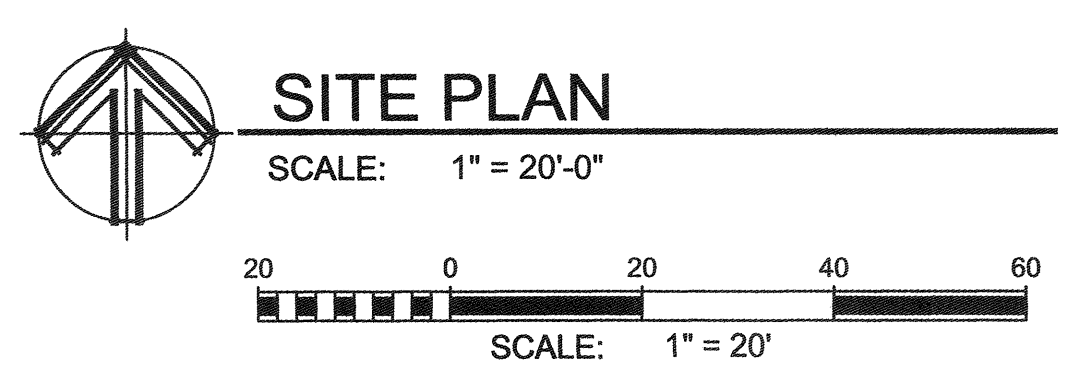
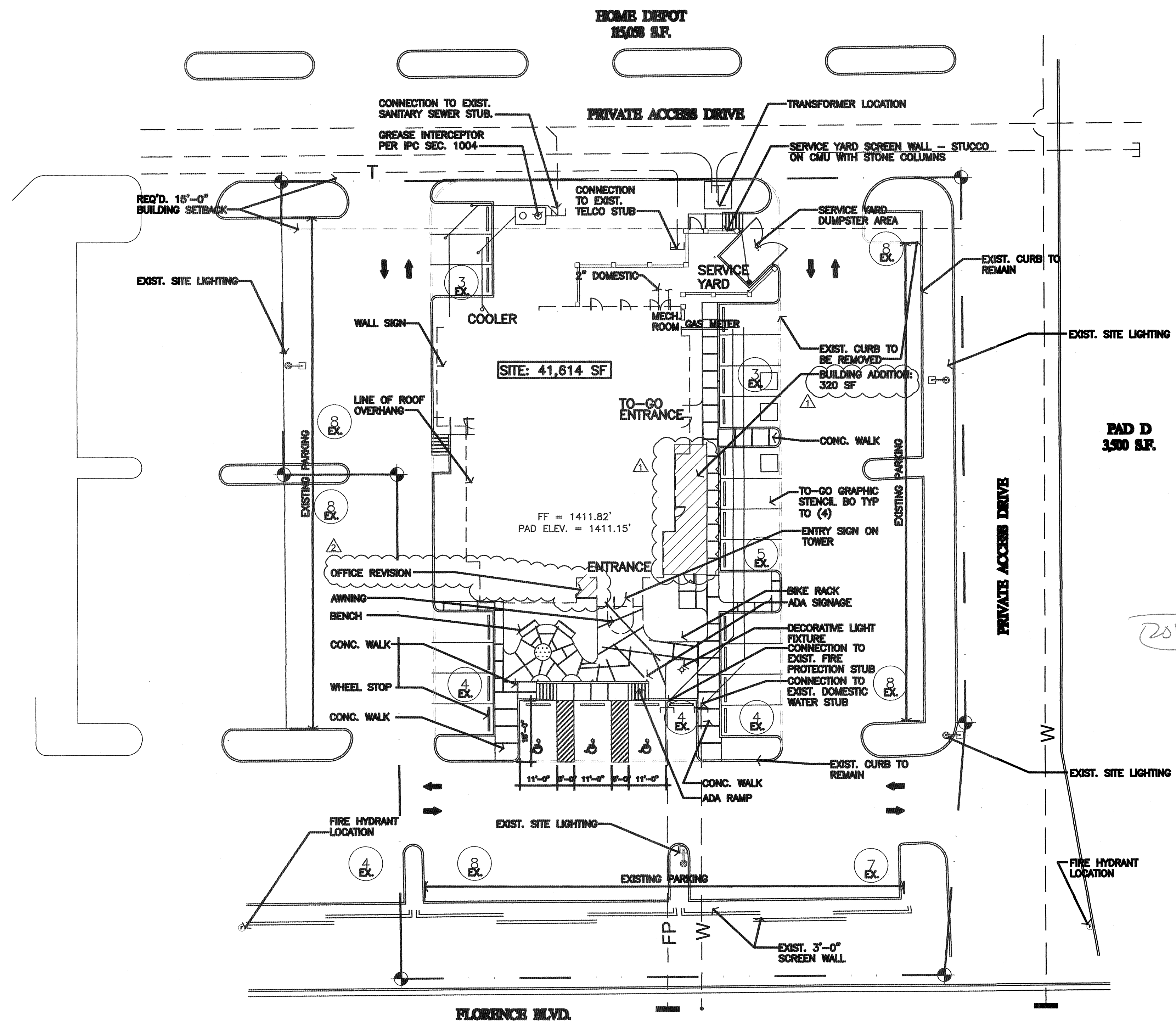
LEGAL DESCRIPTION: PAD 'C' - Casa Grande Market

APPLICABLE CODES

- 2017 National Electrical Building Code (NEC)
- 2018 International Building Code (IBC)
- 2018 International Energy Conservation Code (IECC)
- 2018 International Existing Building Code (IEBC)
- 2018 International Fire Code (IFC)
- 2018 International Fuel Gas Code (IFGC)
- 2018 International Mechanical Code (IMC)
- 2018 International Plumbing Code (IPC)
- City of Casa Grande Building and Technical Administration Code, 2019 Edition

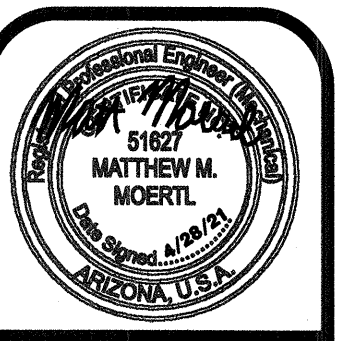
SCOPE OF WORK

This is an existing Restaurant that is being converted to a Chinese Restaurant. The inside was based on drawings could be created for a new permit. Work includes Structural, Architectural, Electrical, Mechanical/Plumbing and Kitchen Design.



**PAD D
3,500 SF.**

20118



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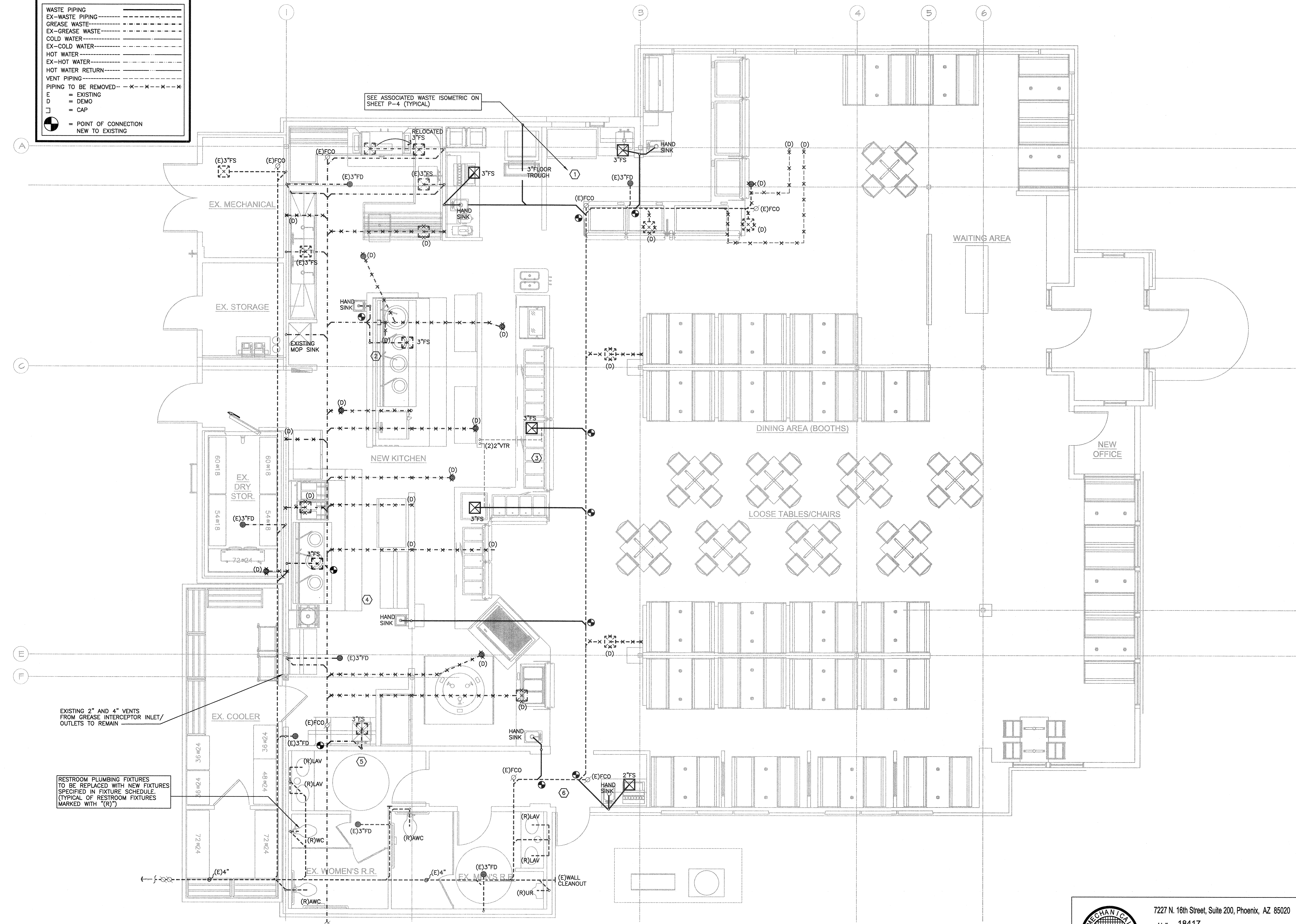
REMODEL FOR RESTAURANT
 1564 E. FLORENCE BLVD.
 CASA GRANDE, ARIZONA
 LOGOS BUILDERS SOUTHWEST

job no. 20118
 drawn MMM
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revisions

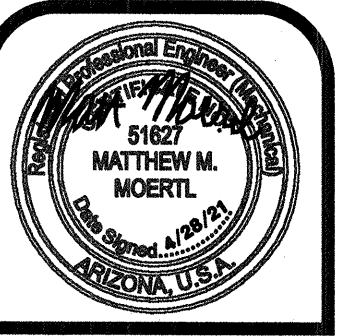
P-1

PLUMBING LEGEND	
WASTE PIPING	---
EX-WASTE PIPING	---
GREASE WASTE	---
EX-GREASE WASTE	---
COLD WATER	---
EX-COLD WATER	---
HOT WATER	---
EX-HOT WATER	---
HOT WATER RETURN	---
VENT PIPING	---
PIPING TO BE REMOVED	-x-x-x-x-
E	= EXISTING
D	= DEMO
□	= CAP
●	= POINT OF CONNECTION NEW TO EXISTING

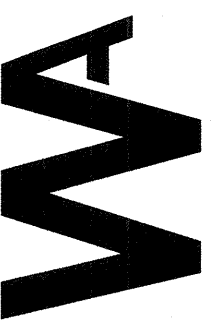


PLUMBING FLOOR PLAN
 WASTE/VENT PIPING
 1/8"=1'-0" NORTH

MECHANICAL DESIGN, INC.
 7227 N. 16th Street, Suite 200, Phoenix, AZ 85020
 Job No. 18417
 Consulting Engineers
 Phone (602) 943-6608
 Fax (602) 943-6181
 Web: MechDesigns.com



winton architects, inc.
 1110 E. Missouri Ave., Suite 800, Phoenix, Arizona 85014
 (602) 250-9778



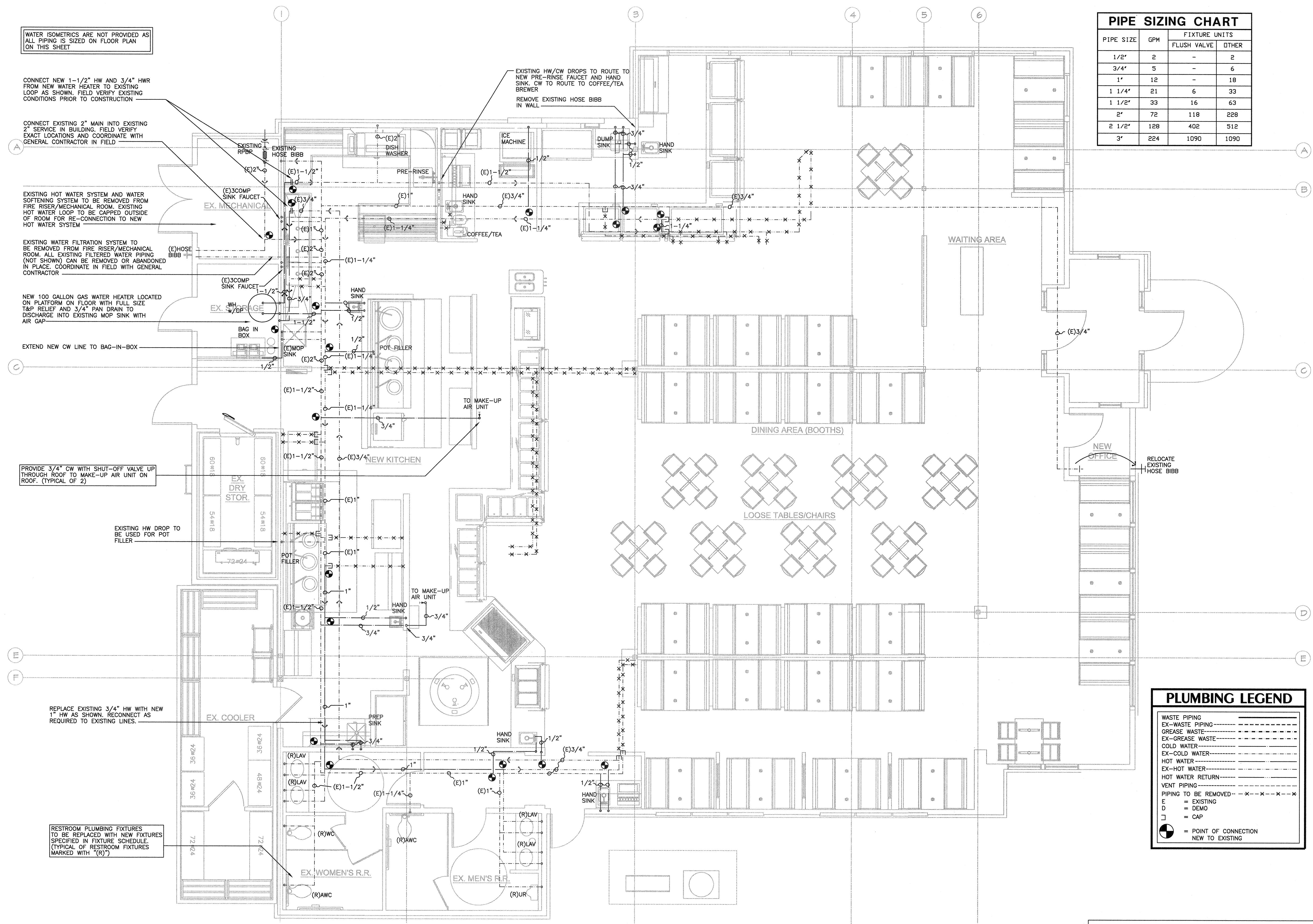
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PIPE SIZE	GPM	FIXTURE UNITS	
		FLUSH VALVE	OTHER
1/2"	2	-	2
3/4"	5	-	6
1"	12	-	18
1 1/4"	21	6	33
1 1/2"	33	16	63
2"	72	118	228
2 1/2"	128	402	512
3"	224	1090	1090

PLUMBING LEGEND	
WASTE PIPING	---
EX-WASTE PIPING	----
GREASE WASTE	- - - - -
EX-GREASE WASTE	- - - - -
COLD WATER	----
EX-COLD WATER	----
HOT WATER	----
EX-HOT WATER	----
HOT WATER RETURN	----
VENT PIPING	----
PIPING TO BE REMOVED	- x - x - x - x - x -
E	= EXISTING
D	= DEMO
□	= CAP
●	= POINT OF CONNECTION
○	= NEW TO EXISTING



WATER ISOMETRICS ARE NOT PROVIDED AS ALL PIPING IS SIZED ON FLOOR PLAN ON THIS SHEET

CONNECT NEW 1-1/2" HW AND 3/4" HWR FROM NEW WATER HEATER TO EXISTING LOOP AS SHOWN. FIELD VERIFY EXISTING CONDITIONS PRIOR TO CONSTRUCTION

CONNECT EXISTING 2" MAIN INTO EXISTING 2" SERVICE IN BUILDING. FIELD VERIFY EXACT LOCATIONS AND COORDINATE WITH GENERAL CONTRACTOR IN FIELD

EXISTING HOT WATER SYSTEM AND WATER SOFTENING SYSTEM TO BE REMOVED FROM FIRE RISER/MECHANICAL ROOM. EXISTING HOT WATER LOOP TO BE CAPPED OUTSIDE OF ROOM FOR RE-CONNECTION TO NEW HOT WATER SYSTEM

EXISTING WATER FILTRATION SYSTEM TO BE REMOVED FROM FIRE RISER/MECHANICAL ROOM. ALL EXISTING FILTERED WATER PIPING (NOT SHOWN) CAN BE REMOVED OR ABANDONED IN PLACE. COORDINATE IN FIELD WITH GENERAL CONTRACTOR

NEW 100 GALLON GAS WATER HEATER LOCATED ON PLATFORM ON FLOOR WITH FULL SIZE T&P RELIEF AND 3/4" PAN DRAIN TO DISCHARGE INTO EXISTING MOP SINK WITH AIR GAP

EXTEND NEW CW LINE TO BAG-IN-BOX

PROVIDE 3/4" CW WITH SHUT-OFF VALVE UP THROUGH ROOF TO MAKE-UP AIR UNIT ON ROOF. (TYPICAL OF 2)

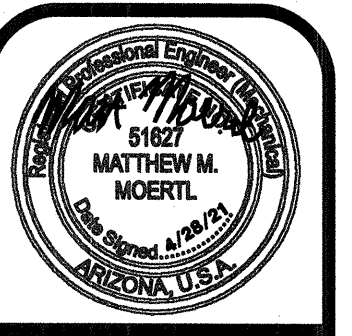
EXISTING HW DROP TO BE USED FOR POT FILLER

REPLACE EXISTING 3/4" HW WITH NEW 1" HW AS SHOWN. RECONNECT AS REQUIRED TO EXISTING LINES.

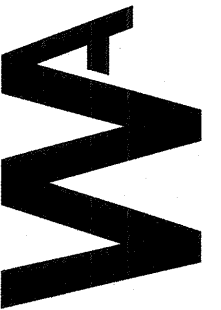
RESTROOM PLUMBING FIXTURES TO BE REPLACED WITH NEW FIXTURES SPECIFIED IN FIXTURE SCHEDULE. (TYPICAL OF RESTROOM FIXTURES MARKED WITH "(R)")

PLUMBING FLOOR PLAN
 WATER PIPING 1/8"=1'-0" NORTH

7227 N. 16th Street, Suite 200, Phoenix, AZ 85020
 Job No. 18417 Phone (602) 943-6808
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 Web: MechDesigns.com



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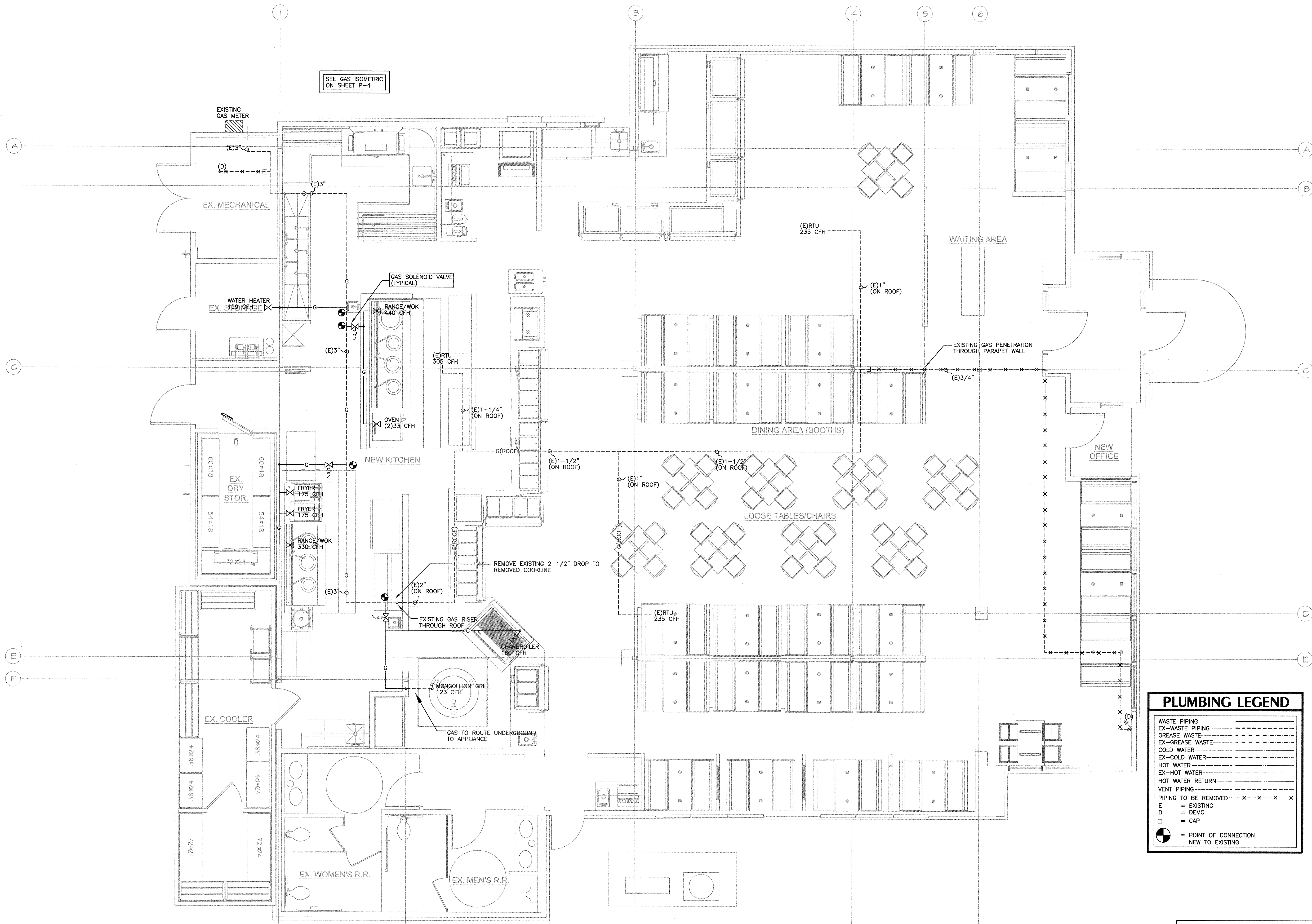


REMODEL FOR RESTAURANT

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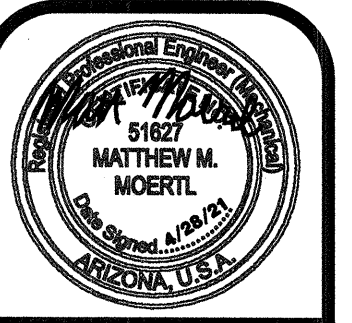


SEE GAS ISOMETRIC ON SHEET P-4

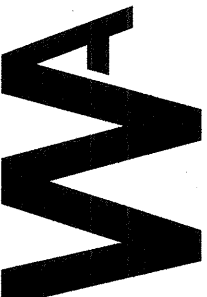
PLUMBING LEGEND	
WASTE PIPING	---
EX-WASTE PIPING	---
GREASE WASTE	---
EX-GREASE WASTE	---
COLD WATER	---
EX-COLD WATER	---
HOT WATER	---
EX-HOT WATER	---
HOT WATER RETURN	---
VENT PIPING	---
PIPING TO BE REMOVED	-x-x-x-x-x-x-
E	= EXISTING
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PLUMBING FLOOR PLAN
 GAS PIPING

7227 N. 16th Street, Suite 200, Phoenix, AZ 85020
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P-4

PLUMBING NOTES

(ALL WORK DONE TO BE IN COMPLIANCE WITH 2018 IPC, IECC AND CURRENT CITY AMENDMENTS)

- GENERAL**
- 1) PLUMBING CONTRACTOR SHALL SEAL ALL PIPE PENETRATIONS ON RATED FLOOR, CEILING, WALL AND ROOF WITH U.L. LISTED MATERIALS.
 - 2) PLUMBING CONTRACTOR TO VERIFY THAT THE FINISH FLOOR ELEVATION IS A MINIMUM OF 1" ABOVE THE RIM OF THE UPSTREAM MANHOLE PRIOR TO ANY CONSTRUCTION TO ENSURE THAT BACKWATER VALVES ARE NOT REQUIRED - NOTIFY ENGINEER IF REQUIRED.
 - 3) BUILDING IS EXISTING SINGLE STORY.
 - 4) PLBR TO SAWCUT AND PATCH EXISTING CONCRETE FLOOR AS REQUIRED. COORDINATE W/GENERAL CONTRACTOR.
 - 5) SUBMITTALS SHALL BE PROVIDED FOR ALL PLUMBING EQUIPMENT. CONTRACTOR SHALL VERIFY SCALE OF DRAWINGS WITH ARCHITECTURAL DRAWINGS BEFORE SUBMITTING ANY BID.
 - 6) PROVIDE WATER HAMMER ARRESTOR AT ALL QUICK CLOSING DEVICES PER 2006 IPC SECTION 604.9.

- WASTE**
- 1) DRAIN WASTE & VENT: IAPMO APPROVED ABS OR PVC PIPE AND FITTINGS.
 - 2) SLOPE ALL SEWER 4" & LARGER @ 1/4" PER FOOT.
 - 3) SLOPE ALL SEWER 3" & SMALLER @ 2% (1/4" PER FOOT).
 - 4) EACH CLEAN OUT SHALL BE READILY ACCESSIBLE AND SO LOCATED AS TO SERVE ITS INTENDED PURPOSE.
 - 5) OFFSET ALL PLUMBING VENTS MINIMUM 10'-0" AWAY FROM ANY OUTSIDE AIR INTAKES. REFER TO MECHANICAL DRAWINGS AND COORDINATE WITH MECHANICAL CONTRACTOR.
 - 6) ALL VENT PIPING, WATER PIPING, ETC. PENETRATING ROOF SHALL BE PROPERLY FLASHED WITH MINIMUM 56 GAUGE GALVANIZED STEEL CAULKED TO PENETRATION AND EXTENDED 6" INTO ROOFING. COORDINATE WITH GENERAL CONTRACTOR & ROOFING SUB-CONTRACTOR.
 - 7) ALL SURFACE CLEAN OUTS SHALL EXTEND TO GRADE.

- WATER**
- 1) POTABLE WATER: TYPE "L" HARD COPPER THROUGHOUT WITH LEAD FREE SILVER SOLDER.
 - 2) WRAP HOT WATER AND DRAIN PIPING FROM HANDICAPPED LAVATORY TO WALL WITH PLUMBEREX HANDY SHIELD SAFETY COVER OR OTHER EQUAL ASTM E84 CLASS A MATERIAL WITH A MAXIMUM 25 FLAME/450 SMOKE SAFETY COVER OR EQUAL INSULATION AS REQUIRED PER HANDICAPPED REQUIREMENTS. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
 - 3) INSULATE ALL HOT WATER (105°F-140°F) PIPING AS FOLLOWS:
 NOMINAL PIPE SIZE INSULATION THICKNESS
 1/2" TO 1-1/4" 1"
 1-1/2" TO 3-1/2" 1-1/2"
 4" TO 7-1/2" 1-1/2"
 PIPING INSULATION FOR 105-140° FAHRENHEIT SHALL HAVE A CONDUCTIVITY OF 0.21-0.27 BTU PER INCH/HR° FT2° FAHRENHEIT.

- GAS**
- 1) GAS PIPING: POLYETHYLENE BURIED 18" BELOW GRADE WITH 18 GAUGE COPPER TRACER WIRE. RISE TO 9" ABOVE GRADE SHALL BE MADE WITH AN APPROVED ANODLESS STEEL RISER & TRANSITION. STANDARD WEIGHT STEEL WITH THREADED JOINTS ABOVE GRADE, BLACK PIPE INDOORS. GALVANIZED OUTDOORS.
 - 2) ALL OUTDOOR METALLIC GAS PIPING TO BE WRAPPED IN POLYCON TAPE WITH HALF (1/2) LAP.

- CONDENSATE**
- 1) COORDINATE WITH MECHANICAL CONTRACTOR TERMINATION OF ALL A/C CONDENSATE DRAINS CONDENSATE DRAIN PIPING SHALL BE TYPE M COPPER WITH LEAD FREE SOLDER.

- FIXTURES**
- 1) ALL FIXTURES APPLIANCES AND APPURTENANCES SHALL HAVE SHUT-OFF VALVES.
 - 2) ALL HOSE BIBBS (HB) ARE 3/4" W/VACUUM BREAKER COMPLETE W/LOOSE KEY HANDLES.

- KITCHEN NOTES**
- 1) PLBR TO ROUGH-IN AND MAKE FINAL CONNECTIONS TO KITCHEN EQUIPMENT.
 - 2) COORDINATE EXACT REQUIREMENTS WITH KITCHEN EQUIPMENT SUPPLIER PRIOR TO ANY CONSTRUCTION.
 - 3) ALL PIPING LOCATED ABOVE CEILING UNLESS OTHERWISE INDICATED.
 - 4) COORDINATE WITH KITCHEN CONTRACTOR THE TYPE OF GRATE REQUIRED FOR FLOOR SINKS.
 - 5) ALL DIRECT CONNECT APPLIANCES SHALL BE INDIVIDUALLY PROTECTED AGAINST BACKFLOW. "CARBONATOR" TYPE SODA DISPENSERS ARE CONSIDERED TO BE "HIGH HAZARD" APPLIANCES AND SHALL BE PROTECTED BY REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTERS WATTS #18909 OR EQUAL. ALL OTHER APPLIANCES SUCH AS ICE MACHINES, COFFEE-MAKERS, YOGURT DISPENSERS, AND SIMILAR EQUIPMENT WITH DIRECT CONNECTIONS TO POTABLE WATER SHALL BE PROTECTED BY A DOUBLE CHECK VALVE TYPE BACKFLOW PREVENTER WATTS #LF007 OR EQUAL.

PLUMBING FIXTURE SCHEDULE

WH-WATER HEATER	100 GALLON/199,000 BTUH INPUT/392 GALLONS PER HOUR AT 60° RISE/ AD SMITH "CYCLONE" #BTH-199/PROVIDE WITH CONCENTRIC VENT KIT, HEAT TRAPS, TIMER, SAFEPAN AND WATER LEAK DETECTION SYSTEM. 97% EFFICIENT/REQUIRES 120V OUTLET/FULL SIZE CONDENSATE DRAIN TO DISCHARGE INTO FLOOR SINK/SERVICE SINK
CP-CIRC PUMP	TACO #005B/1/35 HP/120V SINGLE PHASE/ALL BRONZE
ET-EXPANSION TANK	AMTROL #ST-12/4.4 GALLON CAPACITY/3/4" CONNECTION
FS-FLOOR SINK	J. R. SMITH #3440 w/ DOME STRAINER & 1/2 GRATE MOUNT 1/2 EXPOSED
TP/TG-TRAP PRIMER/GUARD	PROVIDE TRAP GUARD OR DEEP SEAL TRAP IF APPROVED BY MUNICIPALITY. IF NOT APPROVED PROVIDE PPP INC PRIME-RITE AUTOMATIC TRAP PRIMER, #PR-500. PROVIDE 1" AIR GAP WITH 1" RECEPTACLE WITH 1/2" DISCHARGE TO TRAP
WC-WATER CLOSET	FLOOR MOUNTED/FLUSH VALVE/VIT CHINA/ELONG BOWL/AMERICAN STANDARD "MADERA FLDWSE 15" #3451.001 COMPLETE w/ SLOAN "ROYAL" #113-1.6 MANUAL FLUSH VALVE AND SOLID PLASTIC OPEN FRONT SEAT/1.6 GPF
AWC-WATER CLOSET	FLOOR MOUNTED/FLUSH VALVE/VIT CHINA/ELONG BOWL/AMERICAN STANDARD "MADERA FLDWSE 16.5" #3461.001 COMPLETE w/ SLOAN "ROYAL" #113-1.6 MANUAL FLUSH VALVE AND SOLID PLASTIC OPEN FRONT SEAT/ADA COMPLIANT/1.6 GPF
UR-URINAL	WALL MOUNTED/FLUSH VALVE/VIT CHINA/AMERICAN STANDARD "WASHBROOK" #6590.001US COMPLETE w/ SLOAN "ROYAL" #186-0.5 FLUSH VALVE AND WALL CARRIER/0.5 GPF
LAV-LAVATORY	COUNTER MOUNTED/DROP IN/VIT CHINA/17" X 22"/AMERICAN STANDARD "AQUALYN" #0475.020 COMPLETE w/ SYMMONS #S-244 FAUCET w/ WRISTBLADE HANDLES, SELF RIM, TAILPIECE, P-TRAP AND CARRIER/ADA COMPLIANT/ 0.5 GPM/PROVIDE WITH THERMOSTATIC MIXING VALVE SET AT 110°F

WATER CALCULATIONS

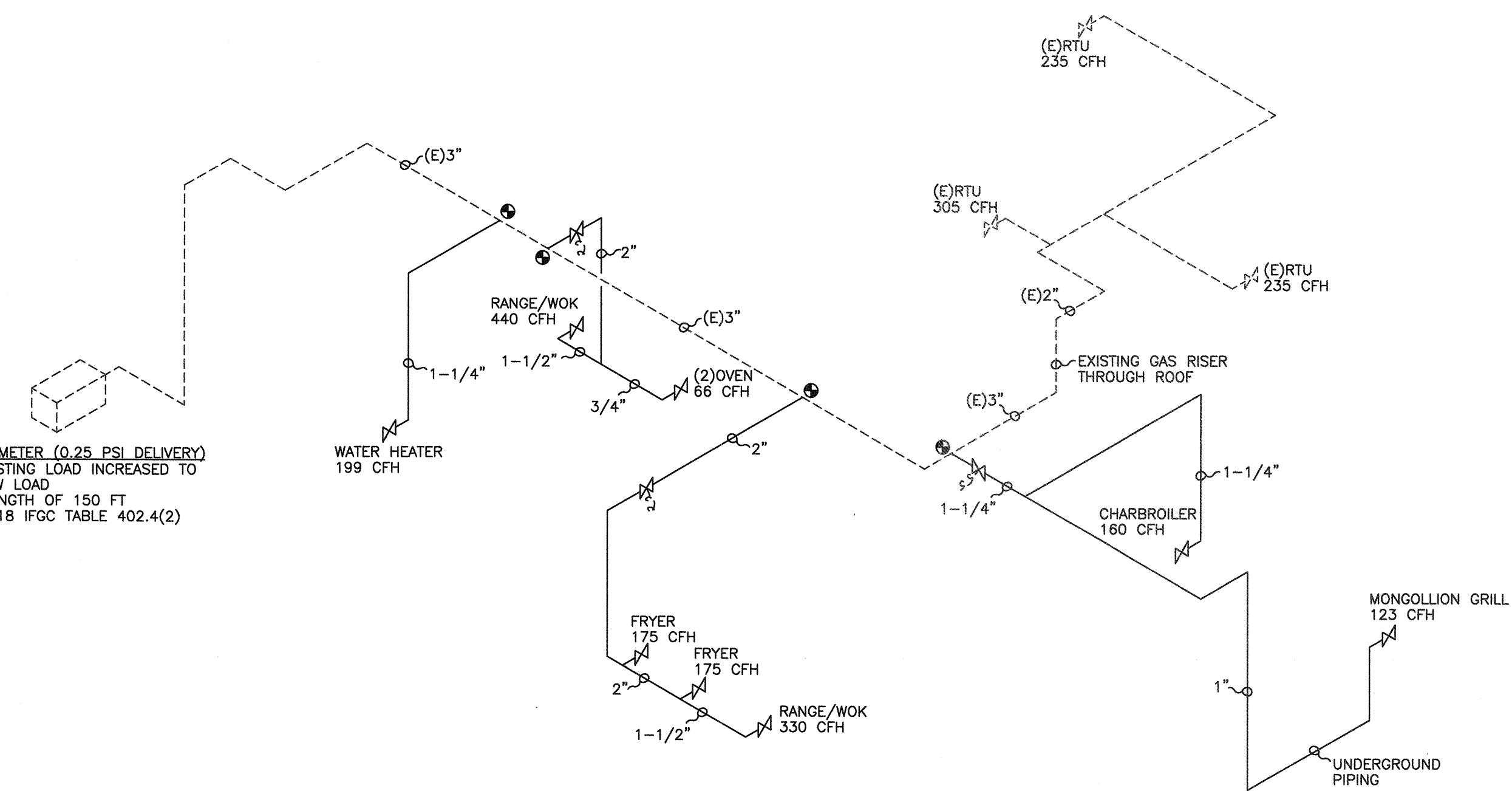
QUANTITY	FIXTURE	LOAD VALUE		TOTAL LOAD VALUE	TOTAL FIXTURE UNITS
		COLD	HOT		
6	HAND SINK	1.5	1.5	2	-
2	KITCHEN SINK (RESTAURANT)	3	3	4	-
2	MAKE-UP AIR UNITS	2	-	2	-
4	MISCELLANEOUS	1	-	1	-

NUMBER OF EXISTING FIXTURE UNITS = 91
 NUMBER OF REMOVED FIXTURE UNITS =
 NUMBER OF NEW FIXTURE UNITS =
 PRESSURE @ METER = 65 PSI - 10 PSI (BFP) - 10 PSI (ML) = 45 PSI
 USE EXISTING WATER METER
 $45 - [25 + (15 \times .43)] = 13.55 \text{ PSI}$
 ALLOWABLE LOSS/100 FEET OF TOTAL DEVELOPED LENGTH OF PIPE:
 $100 \times 13.55 / 350 \text{ FEET} = 3.9 \text{ PSI}$

PLUMBING CONTRACTOR TO VERIFY AND COORDINATE EXACT STREET PRESSURE AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
 PLUMBING CONTRACTOR TO PROVIDE A PRESSURE REDUCING VALVE (PRV) ON CUSTOMER SIDE OF WATER METER IF THE STREET PRESSURE EXCEED 80 PSI, PRV TO BE SET @ 80 PSI

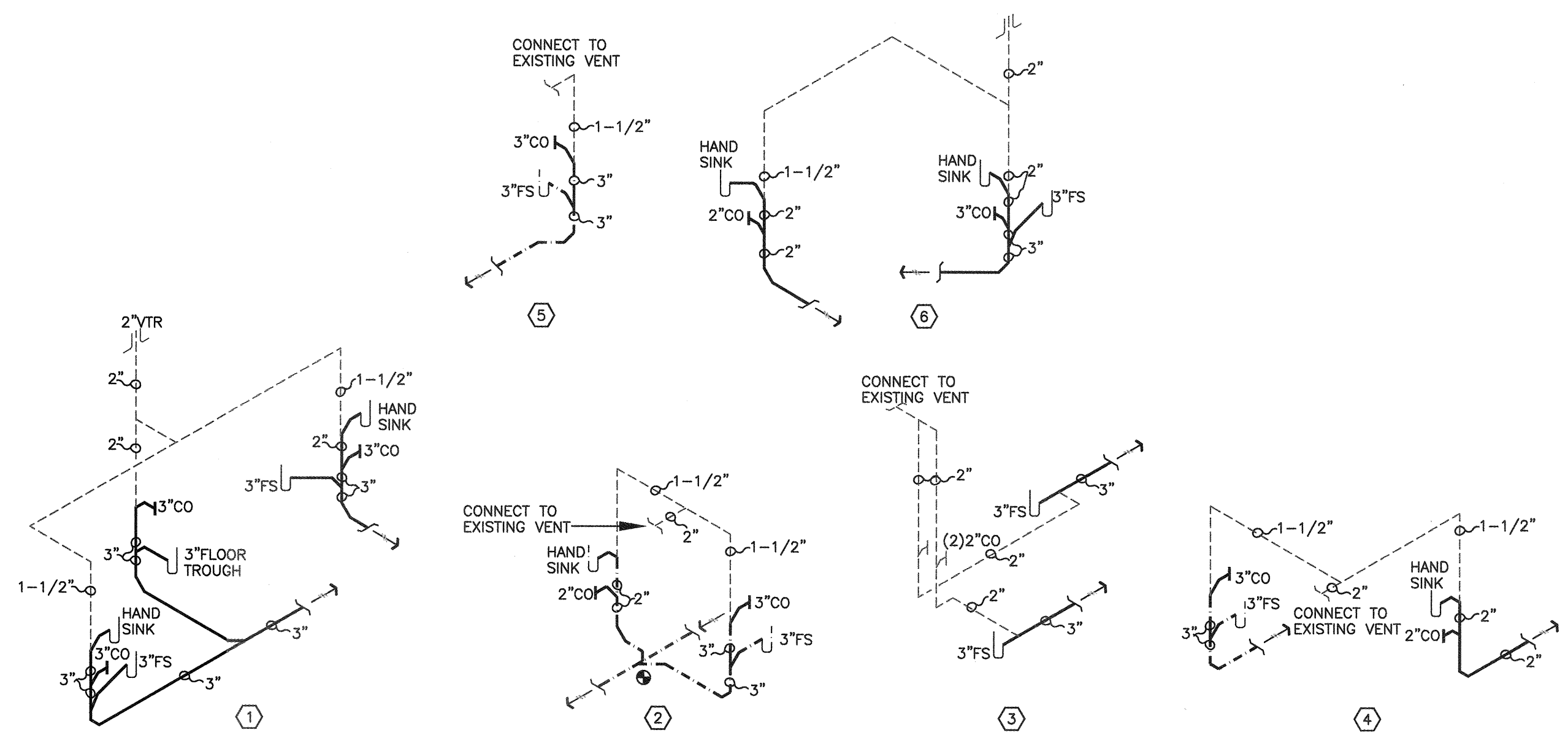
TRAPARM SCHEDULE

SIZE OF TRAP (INCHES)	SLOPE (INCH PER FOOT)	DISTANCE FROM TRAP TO VENT (FEET)
1 1/4"	1/4	5
1 1/2"	1/4	6
2"	1/4	8
3"	1/8	12
4" & LARGER	1/8	16



GAS PIPING DIAGRAM

NTS



WASTE & VENT DIAGRAMS

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