

KITCHEN FOR WORT HOG BREWERY

41 BECKHAM STREET
WARRENTON, VIRGINIA 20186

3344-2018

RECEIVED
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Town of Warrenton
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HINCKLEY • SHEPHERD • NORDEN, P.L.C.
A R C H I T E C T S
19 WINCHESTER STREET WARRENTON, VIRGINIA 20186 540-347-4232

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BUILDING DATA

USE GROUP (EXISTING)	A-2	CODE	2012 VIRGINIA CONSTRUCTION CODE 2009 ICC/ANSI A117.1
TYPE OF CONSTRUCTION (EXISTING)	III-B		
GROSS SQUARE FOOTAGE:			
NET SQUARE FOOTAGE	2261 S.F.		
AREA OF WORK	533 S.F.		
DESIGN CRITERIA:			
WIND SPEED	MIN. 90 MPH	OCCUPANT LOAD:	
ROOF SNOW LOADS	30 PSF	ASSEMBLY -- KITCHEN	1 PER 200 S.F. = 3
FLOOR LOADS:			
	LIVE LOADS	DEAD LOADS	
FIRST FLOOR	100 PSF	10 PSF	

GENERAL NOTES

NOTE 1:	CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD & NOTIFY ARCHITECT OF ANY CONFLICT W/THESE CONSTRUCTION DOCUMENTS.
NOTE 2:	ALL WORK SHALL CONFORM TO ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES.
NOTE 3:	CONNECT NEW PLUMBING SUPPLY, WASTE, AND VENTS BACK TO EXISTING. SEE PLUMBING ENGINEERING DRAWINGS FOR SPECIFICATIONS. PATCH TO MATCH ADJACENT SURFACES.
NOTE 4:	ALL FINISHED DRYWALL SHALL HAVE 1 PRIME COAT & 2 FINISH COATS OF PAINT. PAINT SHALL BE BENJAMIN MOORE LATEX OR APPROVED EQUAL.
NOTE 5:	8'-0" HIGH FRP PANELS ON ALL INTERIOR KITCHEN WALLS. SEE SHEET C-2 FOR SPECIFICATIONS
NOTE 6:	INTERIOR TRIM: BASEBOARDS SHALL MATCH EXISTING ON WALL OUTSIDE OF KITCHEN UNLESS OTHERWISE NOTED. EXISTING WINDOW CASING SHALL BE PRIMED AND PAINTED WITH BENJAMIN MOORE LATEX (SEMI-GLOSS PAINT) PRODUCTS.
NOTE 7:	EXISTING CONCRETE FLOOR TO BE CLEANED AND PREPARED FOR EPOXY FINISH W/ INTEGRAL BASEBOARD PER MANUFACTURER'S SPECIFICATIONS. SEE 2.6 FINISHES, SHEET C-2.
NOTE 8:	DOOR SPECIFIED ON KITCHEN FLOOR PLAN SHALL BE SOLID CORE WOOD DOOR AND TO BE SET ON SOLID WOOD JAMBS. DOOR SHALL HAVE 12" X 12" PORTAL WINDOW CENTERED IN DOOR AND CENTERLINE 60" A.F.F. BRUSHED NICKEL PUSH PLATE & KICK PLATE ON EACH SIDE OF DOOR.
NOTE 9:	EQUIPMENT TO BE LOCATED WHERE SHOWN IN DRAWINGS. GENERAL CONTRACTOR TO COORDINATE ALL TRADES INVOLVED. ANY QUESTION OR ISSUE WITH THE PLACEMENT OF EQUIPMENT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO INSTALLATION.

PROJECT TEAM

OWNER

WORT HOG BREWERY
41 BECKHAM STREET
WARRENTON, VIRGINIA 20186
540-300-2739
CONTACT: MATT LUTZ

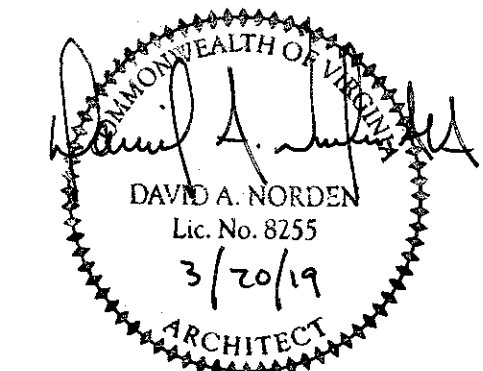
ARCHITECTURAL

HINCKLEY, SHEPHERD, NORDEN P.L.C.
19 WINCHESTER STREET
WARRENTON, VIRGINIA 20186
540-347-4232
CONTACT: DAVID A. NORDEN, AIA

M.E.P. ENGINEER

MEI ENGINEERING
276 SOUTH LIBERTY STREET
HARRISONBURG, VIRGINIA 22801
540-432-6272
CONTACT: WESLEY SIEVER, PE

PLANS APPROVED
WITH THE UNDERSTANDING THAT THEY COMPLY TO ALL APPLICABLE CODES AND REGULATIONS.
I HEREBY CERTIFY THAT THE PLANS COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS.
DAVID A. NORDEN
Lic. No. 8255
3/20/19
ARCHITECT



JOB KITCHEN FOR WORT HOG BREWERY
WARRENTON, VIRGINIA 20186
41 BECKHAM STREET
SHEET COVER SHEET
DWG C-1
REVISION
SCALE AS NOTED
DATE 03-19-19
DRAWN PK
COMM NO. 10266

ARCHITECTURAL SPECIFICATIONS

1. GENERAL

1.1 DESCRIPTION OF WORK:

- A. REMODEL EXISTING SPACE INTO COMMERCIAL KITCHEN. REMOVE NON-STRUCTURAL INTERIOR WALL TO COMBINE TWO ROOMS.

1.2 RELATED DOCUMENTS:

- A. THE REQUIREMENTS OF THE MEP DRAWINGS AND SPECIFICATIONS SHALL APPLY TO AND BE CONSIDERED A PART OF THE ARCHITECTURAL DRAWINGS AND ARE REQUIRED FOR COORDINATION.
- B. CONTRACTOR SHALL BE EXPECTED TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH ALL EXISTING CONDITIONS PRIOR TO SUBMITTING A BID.

1.3 JOB CONDITIONS:

- A. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO SHOW EVERY CONDITION, DETAIL, MATERIAL, ETC. AND CONTRACTOR MUST ANTICIPATE REQUIREMENTS OF CONDITIONS NOT SHOWN.
- B. LIMIT WORK ACTIVITY TO CONSTRUCTION SITE. KEEP DRIVEWAYS AND ENTRANCES CLEAR. REPAIR DAMAGE CAUSED BY CONSTRUCTION OPERATIONS.
- C. EXISTING SITE CONDITIONS: NOTIFY THE ARCHITECT OF EXISTING CONDITIONS DIFFERING FROM THOSE INDICATED ON DRAWINGS. REPORT ANY EXISTING ASBESTOS OR OTHER HAZARDOUS MATERIAL TO THE ARCHITECT BEFORE PROCEEDING. DO NOT REMOVE OR ALTER STRUCTURAL MEMBERS WITHOUT PRIOR WRITTEN APPROVAL.
- D. MAINTAIN EXISTING BUILDING IN A WEATHERTIGHT CONDITION. PROTECT EXISTING BUILDING AND ITS OCCUPANTS.

1.4 CONFORMANCE TO REGULATIONS:

- A. ALL WORK SHALL CONFORM TO THE 2012 VIRGINIA CONSTRUCTION CODE, 2009 ICC/ANSI A117.1, AS WELL AS ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES.
- B. COMPLY WITH ARCHITECT'S (AS THE REPRESENTATIVE OF THE OWNER) CONSTRUCTION REQUIREMENTS FOR INSTALLATION OF ALL BUILDING SYSTEMS AND MATERIALS.

1.5 QUALITY ASSURANCE:

- A. COMPLY WITH ALL MANUFACTURER'S MATERIALS & INSTALLATION SPECIFICATIONS.

1.6 MATERIALS AND EQUIPMENT:

- A. MATERIALS AND EQUIPMENT FOR THIS PROJECT SHALL BE EQUIVALENT TO, OR BETTER THAN PRODUCTS SPECIFIED, AND SHALL BE APPROVED BY ARCHITECT.
- B. CONTRACTOR SHALL GUARANTEE EQUIVALENCE AND IS RESPONSIBLE FOR MODIFICATIONS REQUIRED AND COORDINATION WITH OTHER TRADES TO FIT SUBSTITUTED PRODUCT INTO THE PROJECT.
- C. MATERIALS AND EQUIPMENT OF THE SAME TYPE AND USE SHALL BE FROM A SINGLE MANUFACTURER.
- D. PROTECT STORED MATERIALS AND EQUIPMENT FROM WEATHER.

1.7 SUBMITTALS:

- A. SUBMIT SHOP DRAWINGS AND/OR PRODUCT DATA FOR MATERIAL, PRODUCT EQUIPMENT, AND ALL STEEL WORK SPECIFIED WITHIN AND ON THE DRAWINGS. SHOP DRAWINGS AND PRODUCT DATA SHALL BE IDENTIFIED AS INDICATED ON DRAWINGS, SHALL BE LABELED/MARKED TO IDENTIFY SPECIFIC PROPOSED ITEM, AND SHALL BE ORGANIZED IN AN ORDERLY MANNER. SUBMIT IN PDF FORMAT VIA EMAIL.
- B. SUBMIT OPERATING AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT INSTALLED IN THIS PROJECT. INCLUDE COPIES OF SPECIFIC EQUIPMENT WARRANTIES IN MANUAL. SUBMIT MAINTENANCE INFORMATION FOR EACH SURFACE PRODUCT INSTALLED IN THIS PROJECT (I.E. FLOORING). INCLUDE COPIES OF SPECIFIC PRODUCT WARRANTIES.
- C. UPON COMPLETION OF THE INSTALLATION, AND PRIOR TO ACCEPTANCE BY THE ARCHITECT AND OWNER, THE CONTRACTOR SHALL FURNISH TWO COPIES OF AS-BUILT DOCUMENTATION. ALL CHANGES TO THE BIDDING DOCUMENTS SHALL BE NEATLY AND CLEARLY IDENTIFIED ON THE AS-BUILT DOCUMENTATION.

1.8 PROJECT CLOSEOUT:

- A. REPAIR OR REPLACE ALL MATERIALS, PRODUCTS, OR EQUIPMENT THAT WERE DAMAGED DURING INSTALLATION AT NO ADDITIONAL EXPENSE TO THE OWNER.
- B. TOUCH-UP SHOP APPLIED FINISHES TO RESTORE DAMAGED OR SOILED AREAS.
- C. INSTRUCT OWNER'S REPRESENTATIVE IN OPERATION AND MAINTENANCE OF EQUIPMENT UTILIZING OPERATION AND MAINTENANCE MANUAL.
- D. VACUUM AND CLEAN SURFACES AS REQUIRED PRIOR TO PROJECT TURNOVER TO OWNER.

2. PRODUCTS

2.2 METALS:

- A. ALL FASTENERS IN DIRECT CONTACT W/ PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED OR STAINLESS STEEL.

2.3 WOOD, PLASTICS, AND COMPOSITES:

- A. FIBER-REINFORCED PLASTIC (FRP) PANELS TO BE 'MARLITE' SYMMETRIX FRP, COLOR TO BE DETERMINED, 4 FOOT X 8 FOOT PANELS. ALL 'MARLITE' PRODUCTS SHALL BE INSTALLED IN COMPLIANCE WITH MANUFACTURER'S SPECIFICATIONS. FINAL COLOR CHOICE UPON RECEIPT OF ACTUAL SAMPLE.
- B. INTERIOR TRIM: CASING SHALL BE 1X4 S4S PRIMED SPF. ALL WOOD TRIM SHALL HAVE MINIMUM 1 PRIME COAT & 2 FINISH COATS OF PAINT. COLOR TO BE DETERMINED.
- C. BATHROOM ACCESSORIES: 'BOBRICK' B-165 1830 MIRROR WITH STAINLESS STEEL CHANNEL FRAME; 'BOBRICK' B-2888 SURFACE-MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER; 'BOBRICK' B-6806 SERIES 1 1/2" DIA. STAINLESS STEEL GRAB BARS WITH SNAP FLANGE, SATIN FINISH; AND 'BOBRICK' B-2111 CLASSICSERIES SURFACE-MOUNTED SOAP DISPENSER, SATIN FINISH.

2.4 THERMAL AND MOISTURE PROTECTION:

- A. WALL & ROOF INSULATION SHALL BE OWENS CORNING FIBERGLASS BATT INSULATION, OR EQUAL. ALL INSULATION SHALL BE INSTALLED IN COMPLIANCE WITH ALL MANUFACTURER'S SPECIFICATIONS. SEE SECTIONS & DETAILS FOR REQUIRED 'R' VALUES.

2.5 OPENINGS:

- A. INTERIOR DOOR SPECIFIED ON KITCHEN FLOOR PLAN SHALL BE SOLID CORE WOOD DOOR AND TO BE SET ON SOLID WOOD JAMBS. DOOR SHALL HAVE 12" X 12" PORTAL WINDOW CENTERED IN DOOR AND CENTERLINE 60" A.F.F. DOOR MANUFACTURER TO BE CONTRACTOR'S OPTION. COLOR TO BE DETERMINED BY OWNER.
- B. DOOR HARDWARE: ALL DOOR HARDWARE SHALL BE BRUSHED NICKEL. PUSH PLATE & KICK PLATE ON EACH SIDE OF DOOR. DOOR HARDWARE MANUFACTURER TO BE CONTRACTOR'S OPTION. ALL DOOR HARDWARE SHALL BE INSTALLED IN COMPLIANCE WITH ALL MANUFACTURER'S SPECIFICATIONS.

2.6 FINISHES:

- A. EPOXY FLOOR FINISH W/ INTEGRAL BASEBOARDS: 'WESTCOAT' SPECIALTY COATING SYSTEMS, TEMPER-CRETE, COLOR: SKY 352. ALL 'WESTCOAT' SPECIALTY COATING SYSTEMS SHALL BE INSTALLED IN COMPLIANCE WITH ALL MANUFACTURER'S SPECIFICATIONS. FINAL COLOR CHOICES UPON RECEIPT OF ACTUAL SAMPLES.
- B. INTERIOR WALL PAINT AND INTERIOR TRIM PAINT SHALL BE BENJAMIN-MOORE ADVANCE INTERIOR SEMI-GLOSS. INTERIOR PRIMER SHALL BE BENJAMIN-MOORE FRESH START PREMIUM INTERIOR PRIMER. FINAL PAINT COLORS TO BE DETERMINED BY OWNER.
- C. ALL DRYWALL SHALL BE GLUED & SCREWED W/ A CONTINUOUS BEAD OF APPROVED DRYWALL ADHESIVE ON ALL WOOD FRAME SURFACES. ALL FINISHED DRYWALL SHALL HAVE MINIMUM 1 PRIME COAT & 2 FINISH COATS OF PAINT.
- D. SUSPENDED CEILING SHALL BE 'ARMSTRONG' OR CONTRACTOR'S OPTION 24"X48" ACOUSTICAL TILE W/ EXPOSED TEE GRID SYSTEM. MUST MEET HEALTH DEPARTMENT REGULATIONS. COLOR TO BE DETERMINED.

2.7 FURNISHING:

- A. PASS-THRU COUNTERTOPS SHALL BE 16 GA. STAINLESS STEEL. TURN DOWN STAINLESS STEEL, WRAPPING ALL EXPOSED EDGES.

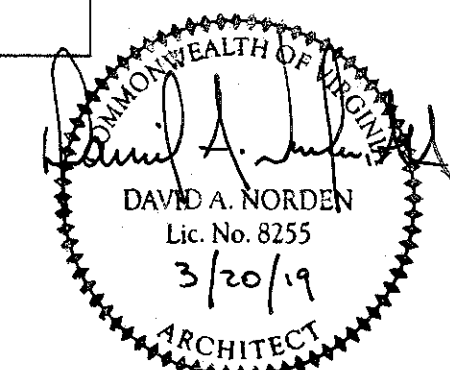
3. EXECUTION

3.1 INSTALLATION REQUIREMENTS:

- A. INSPECT SUBSTRATES AND REPORT UNDESIRABLE CONDITIONS IN WRITING. DO NOT PROCEED WITH INSTALLATION UNTIL UNDESIRABLE CONDITIONS HAVE BEEN CORRECTED.
- B. CONTRACTOR SHALL VERIFY ALL DIMENSIONS IN FIELD & NOTIFY ARCHITECT OF ANY CONFLICT W/ THESE CONSTRUCTION DOCUMENTS. VERIFY DIMENSIONS IN THE FIELD PRIOR TO ORDERING, OR FABRICATING PRODUCTS WHERE PRACTICAL.
- C. INSTALL MATERIALS, PRODUCTS AND EQUIPMENT IN EXACT ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS AND APPROVED SUBMITTALS.
- D. INSTALL MATERIALS TO INSURE ACCEPTABLE APPEARANCE AND THE CORRECT RELATIONSHIP TO ADJACENT CONSTRUCTION AND MATERIALS.
- E. CONNECT NEW PLUMBING SUPPLY, WASTE, AND VENTS BACK TO EXISTING. SEE PLUMBING ENGINEERING DRAWINGS FOR SPECIFICATIONS. PATCH TO MATCH ADJACENT SURFACES.
- F. EQUIPMENT TO BE LOCATED WHERE SHOWN IN DRAWINGS. GENERAL CONTRACTOR TO COORDINATE ALL TRADES INVOLVED. ANY QUESTION OR ISSUE WITH THE PLACEMENT OF EQUIPMENT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO INSTALLATION.
- G. INTERIOR CONCRETE SLAB MUST BE FINISHED TO A SMOOTH AND LEVEL SURFACE, READY TO ACCEPT EPOXY FLOORING.

3.2 COORDINATION:

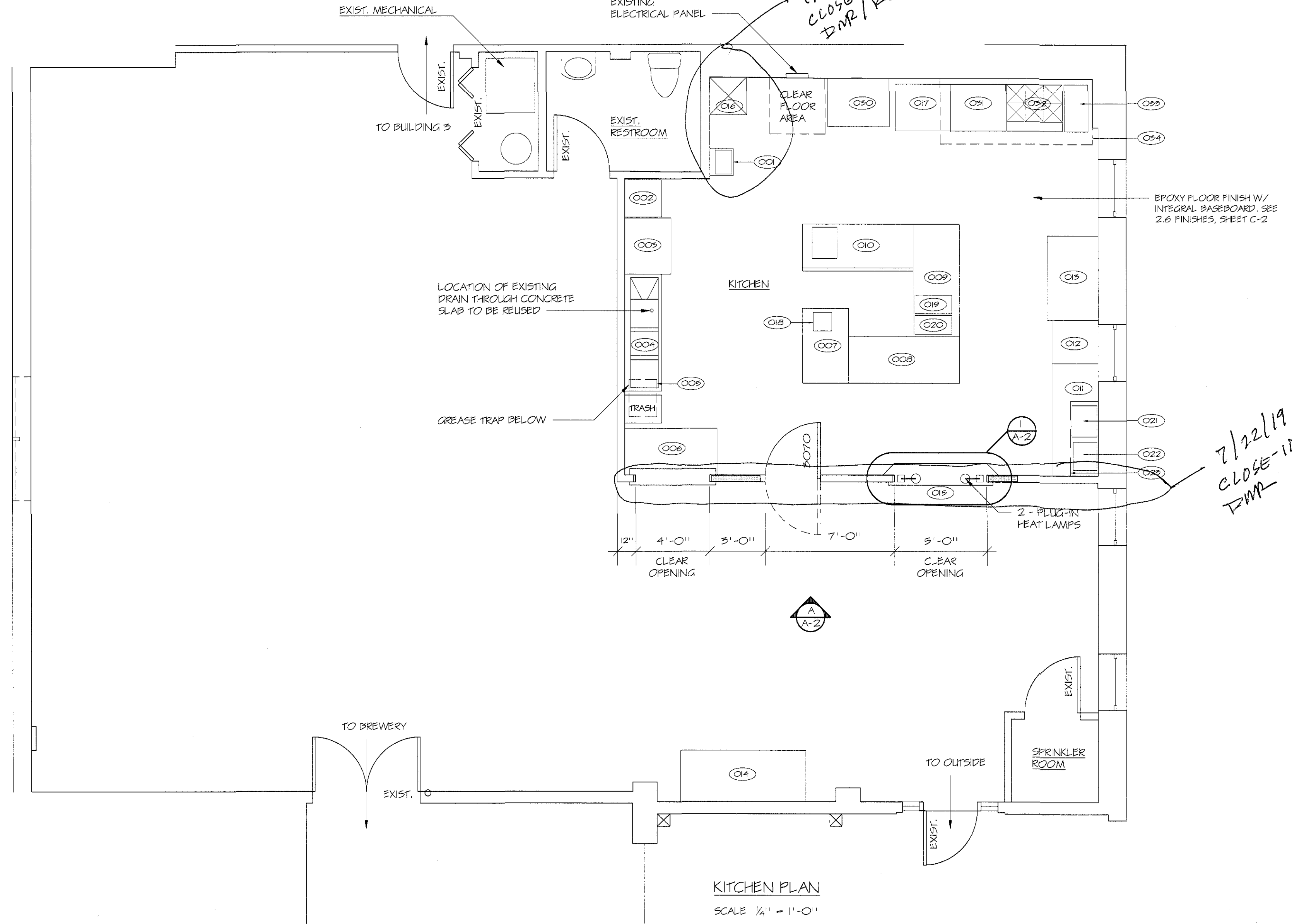
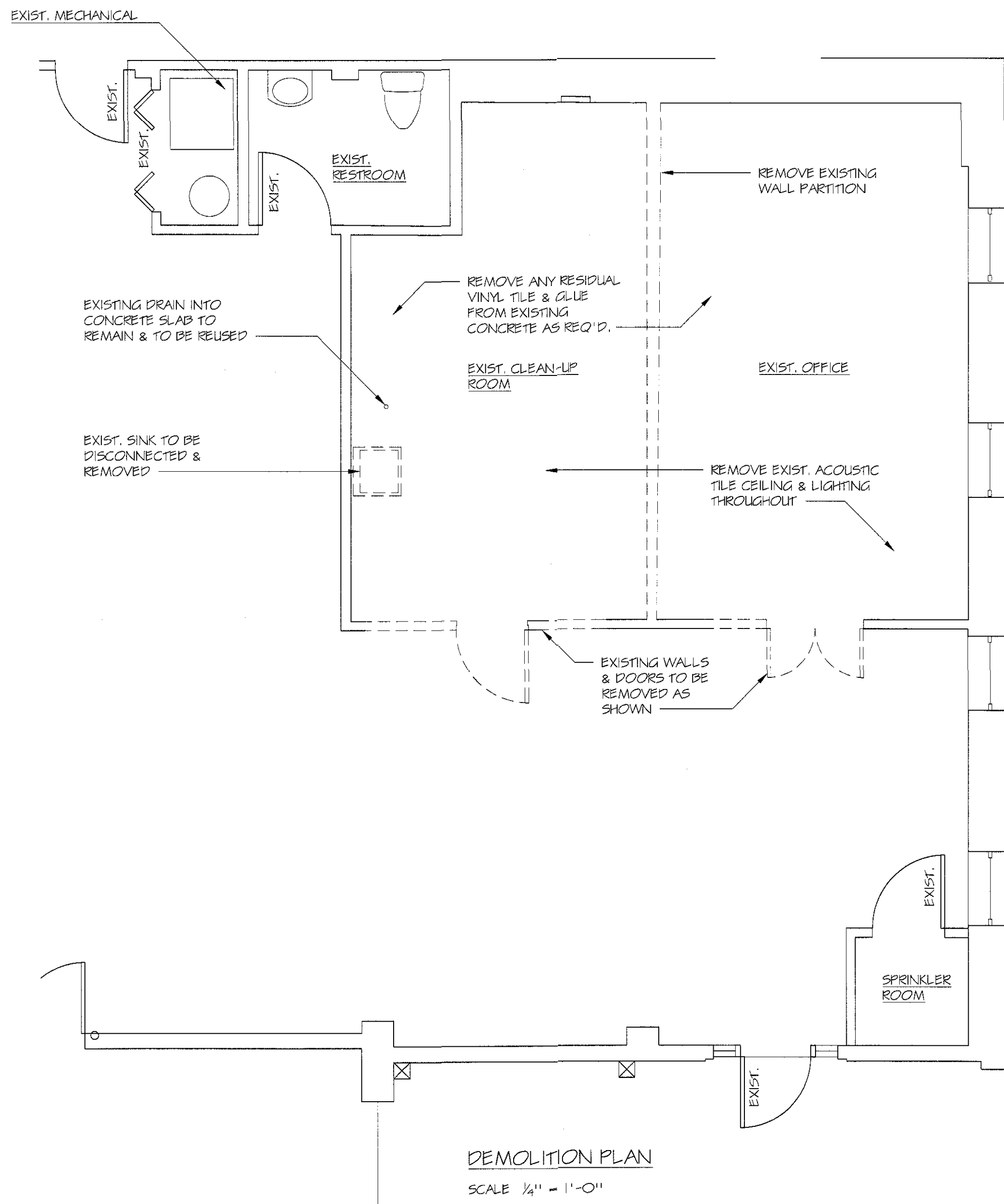
- A. GENERAL CONTRACTOR TO COORDINATE THE WORK OF ALL TRADES.
- B. VERIFY THE LOCATION OF ALL EXISTING UTILITIES AND EXISTING CONDITIONS.



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 19 WINCHESTER STREET WARRENTON, VIRGINIA 20186 540-347-4232

JOB KITCHEN FOR WORT HOG BREWERY
 41 BECKHAM STREET WARRENTON, VIRGINIA 20186
 SHEET ARCHITECTURAL SPECIFICATIONS
 COMM. NO. 1066 DRAWN PK SCALE AS NOTED DATE 03-19-19

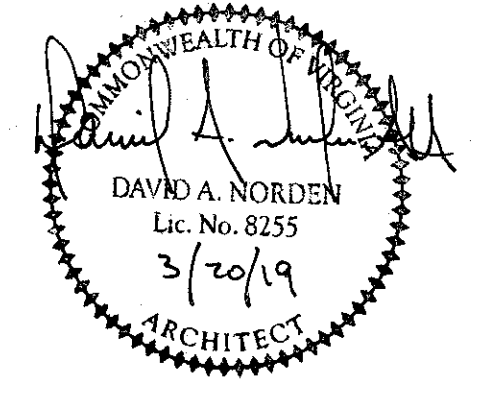
DWG C-2
 REVISION



KITCHEN EQUIPMENT SCHEDULE			
NO.	ITEM	SIZE	MANUFACTURER & MODEL
001	WALL MOUNTED HAND SINK	17.5"W. X 10"D. X 16"D.	EXISTING
002	ICE MACHINE	24"W. X 24"D. X 39.5"H.	EXISTING - CENTRAL EXCLUSIVE MODEL NO. 69K-084
003	STAINLESS STEEL PREP TABLE	36"W. X 30"D. X 34"H.	EXISTING
004	STAINLESS STEEL 3-COMPARTMENT SINK	75"W. X 24"D. X 36"H.	EXISTING
005	GREASE INTERCEPTOR	22"W. X 14"D. X 12"H.	EXISTING
006	STAINLESS STEEL PREP TABLE	60"W. X 30"D. X 34"H.	EXISTING
007	STAINLESS STEEL PREP TABLE	48"W. X 30"D. X 34"H.	EXISTING
008	STAINLESS STEEL PREP TABLE	72"W. X 30"D. X 34"H.	EXISTING
009	STAINLESS STEEL PREP TABLE	72"W. X 30"D. X 34"H.	EXISTING
010	STAINLESS STEEL WORK TABLE W/ SINK ON RIGHT SIDE	72"W. X 30"D. X 40.5"H.	REGENCY 600ST3072 RT
011	STAINLESS STEEL PREP TABLE	72"W. X 30"D. X 34"H.	EXISTING
012	SANDWICH STATION	27.5"W. X 30"D. X 42.5"H.	EXISTING - KOOL-IT MODEL NO.
013	2-DOOR REACH-IN REFRIGERATOR	54"W. X 33"D. X 82.5"H.	EXISTING - CENTRAL EXCLUSIVE MODEL NO. 69K-032
014	3-DOOR FREEZER	81.5"W. X 33"D. X 82.5"H.	EXISTING - CENTRAL EXCLUSIVE MODEL NO. 69K-036
015	HEAT LAMPS (2)		EXISTING - PORTABLE, PLUG-IN
016	MOP SINK	24"W. X 24"D. X 10"H.	MUSTEE 63M DURASTONE MATERIAL
017	STAINLESS STEEL PREP TABLE	72"W. X 30"D. X 34"H.	EXISTING

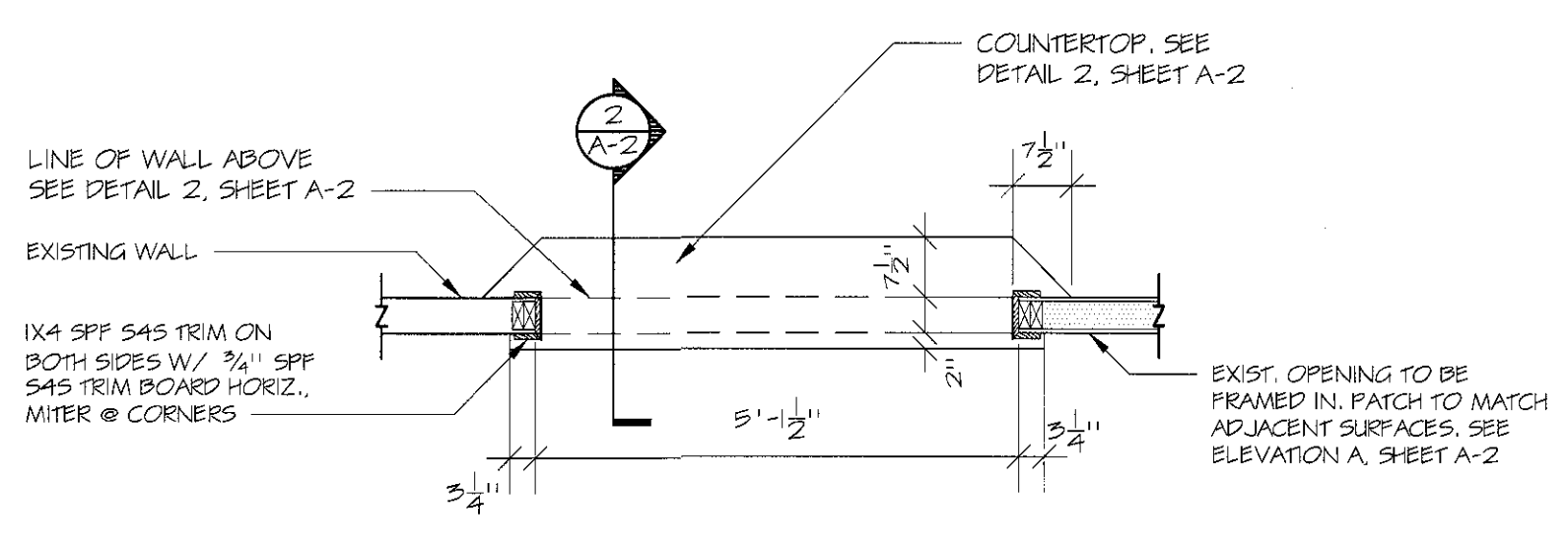
KITCHEN EQUIPMENT SCHEDULE			
NO.	ITEM	SIZE	MANUFACTURER & MODEL
018	TABLETOP ELECTRIC BURNER		EXISTING - CADCO
019	FOOD WARMER		EXIST. WELLS MODEL NO. SHW-1220
020	FOOD WARMER		EXIST. QUALITE MODEL NO. RDFW 1200NP
021	MICROWAVE OVEN		EXISTING
022	MICROWAVE OVEN		EXISTING
023	STAINLESS STEEL SHELF	48"W. X 18"D.	REGENCY
030	FUTURE CONVENTION OVEN	31"D. X 58.5"H. X 40"W.	EXISTING - VULCAN MODEL NO.
031	FUTURE GAS COUNTERTOP GRIDDLE	36"W. X 28.6"D. X 15.2"H.	ATOSA MODEL NO. ATMG-36
032	FUTURE GAS RANGE	36"W. X 32.625"D. X 56.375"H.	ATOSA MODEL NO. ATO-6B
033	FUTURE GAS FLOOR FRYER	15.6"W. X 30.1"D. X 44.4"H.	ATOSA MODEL NO. AIFS-40
034	FUTURE EXHAUST HOOD		

THIS SET OF PLANS IS UNLESS OTHERWISE NOTED TO BE THE PROPERTY OF HINCKLEY • SHEPHERD • NORDEN, P.L.C.

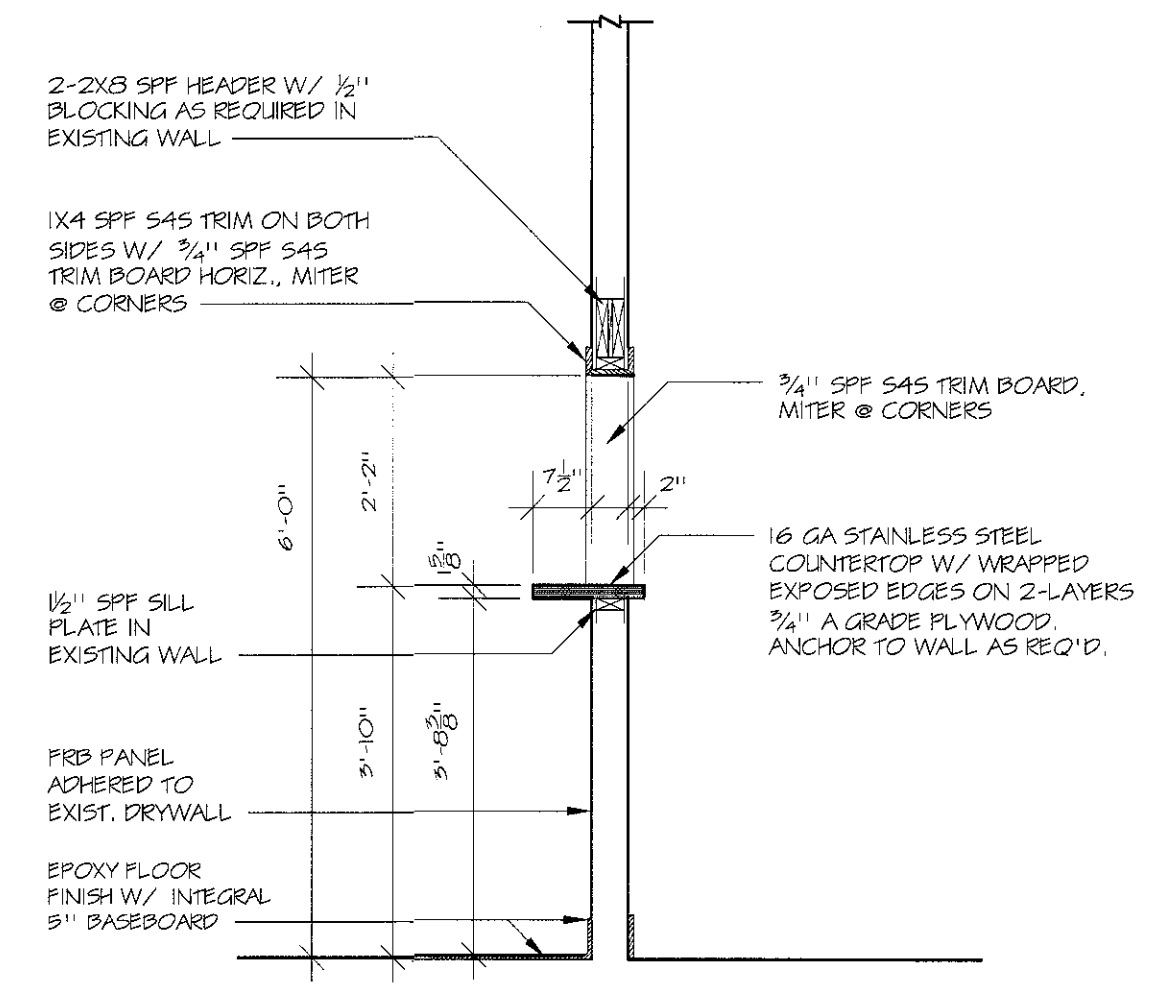


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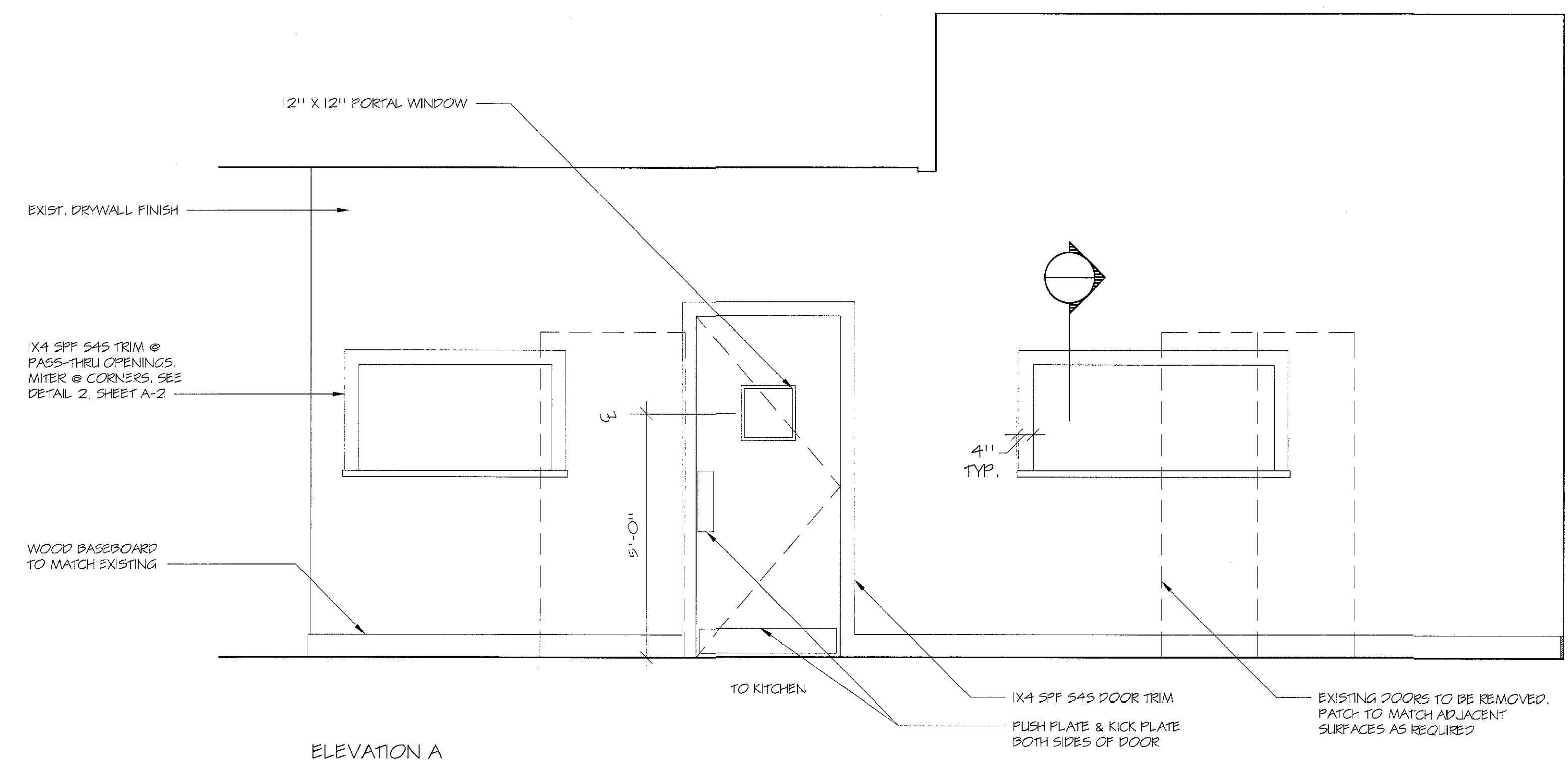
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SHEET DEMO & KITCHEN PLANS, EQUIPMENT SCHED.
DWG A-1
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① **PLAN @ PASS-THRU**
 SCALE 1/2" = 1'-0"

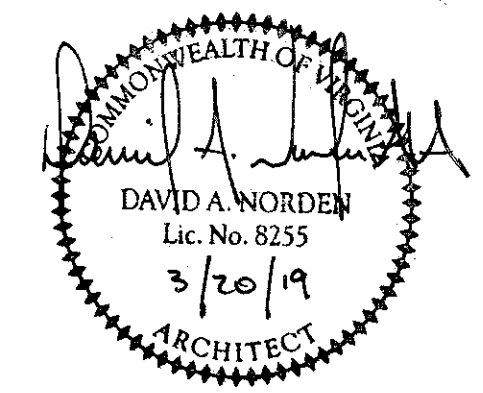


② **DETAIL @ PASS-THRU SECTION**
 SCALE 1/2" = 1'-0"



ELEVATION A
 SCALE 1/2" = 1'-0"

NO DIMENSIONS WILL BE MADE UNLESS AN APPROVED SET OF PLANS IS ON JOB SITE.



HVAC SPECIFICATIONS

1. GENERAL

1.1 DESCRIPTION OF WORK:

A. ALL FIXTURES, EQUIPMENT, ACCESSORIES, MATERIALS, AND LABOR REQUIRED TO PROVIDE COMPLETE, COORDINATED, AND FULLY FUNCTIONAL HVAC SYSTEMS GENERALLY AS INDICATED ON THE DRAWINGS AND AS SPECIFIED HEREIN.

- HEATING SYSTEM
- COOLING SYSTEM
- VENTILATION SYSTEM
- EXHAUST SYSTEMS

1.2 RELATED DOCUMENTS:

A. THE REQUIREMENTS OF THE CIVIL, ARCHITECTURAL, STRUCTURAL, PLUMBING AND ELECTRICAL DRAWINGS AND SPECIFICATIONS SHALL APPLY TO AND BE CONSIDERED A PART OF THE HVAC WORK IN-SO-FAR AS THEY APPLY TO THE HVAC WORK AND ARE REQUIRED FOR COORDINATION.

1.3 JOB CONDITIONS:

A. DUE TO THE SMALL SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS AND ACCESSORIES WHICH MAY BE REQUIRED TO PROVIDE A COMPLETE INSTALLATION OF THE WORK DESCRIBED AND INDICATED.

B. PROVIDE FITTINGS, OFFSETS, TRANSITIONS, CONTROL TRANSFORMERS AND ACCESSORIES REQUIRED TO MEET CONDITIONS OF THE PROJECT.

C. PROVIDE SERVICE ACCESS FOR EQUIPMENT, CONTROL COMPONENTS, VALVES, FILTERS AND SPECIALTIES.

D. PROVIDE ACCESS PANELS FOR VALVES, ACCESS DOORS, ETC. CONCEALED BEHIND FINISHED SURFACES.

E. MODIFY DUCT DIMENSIONS AS REQUIRED BY BUILDING STRUCTURE OR OTHER WORK AT NO ADDITIONAL COSTS TO THE OWNER. MAINTAIN EQUIVALENT FREE AREA SIZES.

1.4 CONFORMANCE TO REGULATIONS:

A. WORK SHALL CONFORM WITH VIRGINIA UNIFORM STATEWIDE BUILDING CODE, NFPA, AND LOCAL ORDINANCES.

1.5 QUALITY ASSURANCE:

A. COMPLY WITH MANUFACTURER'S REQUIREMENTS AND NOTES AND DETAILS SHOWN HEREIN FOR INSTALLATION OF EQUIPMENT.

B. COMPLY WITH RECOMMENDATIONS OF SMACNA AND ASHRAE.

1.6 MATERIALS AND EQUIPMENT:

A. EQUIPMENT PROVIDED FOR THIS PROJECT SHALL BE EQUIVALENT TO PRODUCTS SPECIFIED.

B. CONTRACTOR SHALL GUARANTEE EQUIVALENCE AND IS RESPONSIBLE FOR MODIFICATIONS REQUIRED AND COORDINATION WITH OTHER TRADES TO FIT SUBSTITUTED PRODUCT INTO THE PROJECT.

C. MATERIALS AND EQUIPMENT OF THE SAME TYPE AND USE SHALL BE FROM A SINGLE MANUFACTURER.

D. PROTECT STORED MATERIALS AND EQUIPMENT FROM WEATHER.

E. IF HVAC EQUIPMENT IS OPERATED DURING CONSTRUCTION, PROVIDE TEMPORARY FILTERS TO PROTECT AIR HANDLING EQUIPMENT.

1.7 SUBMITTALS:

A. SUBMIT SHOP DRAWINGS AND PRODUCT DATA FOR EQUIPMENT SPECIFIED HEREIN AND ON THE DRAWINGS. SHOP DRAWINGS AND PRODUCT DATA SHALL BE IDENTIFIED PER INDICATIONS ON DRAWINGS, SHALL BE MARKED TO INDICATED SPECIFIC ITEM BE PROPOSED, AND SHALL BE ORGANIZED IN AN ORDERLY MANNER. SUBMIT IN .PDF FORMAT VIA EMAIL.

B. SUBMIT OPERATING AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT INSTALLED IN THIS PROJECT. INCLUDE COPIES OF SPECIFIC EQUIPMENT WARRANTIES IN MANUAL.

C. UPON COMPLETION OF THE INSTALLATION, AND PRIOR TO ACCEPTANCE BY THE OWNER, CONTRACTOR SHALL FURNISH TWO COPIES OF AS-BUILT DOCUMENTATION. ALL CHANGES TO THE BIDDING DOCUMENTS SHALL BE NEATLY AND CLEARLY IDENTIFIED ON THE AS-BUILT DOCUMENTATION.

1.8 PROJECT CLOSEOUT:

A. REPLACE OR REPAIR DAMAGED EQUIPMENT AND CLEAN ALL EXPOSED SURFACES.

B. TOUCH-UP SHOP APPLIED FINISHES TO RESTORE DAMAGED OR SOILED AREAS.

C. INSTRUCT OWNER'S REPRESENTATIVE IN OPERATION AND MAINTENANCE OF EQUIPMENT UTILIZING OPERATION AND MAINTENANCE MANUAL. MINIMUM INSTRUCTION PERIOD SHALL BE TWO HOURS.

D. REPLACE FILTERS IN AIR HANDLING EQUIPMENT AT TIME OF PROJECT TURNOVER TO OWNER.

E. VACUUM INTERIORS OF DUCTWORK AND EQUIPMENT WHICH BECOMES DIRTY, PRIOR TO PROJECT TURNOVER TO OWNER. CLEAN ANY DIRTY EQUIPMENT COILS.

2. PRODUCTS

2.1 PIPING SYSTEMS:

A. CONDENSATE DRAIN - SCH. 40 PVC WITH SOLVENT WELD FITTINGS

B. REFRIGERANT - TYPE C&C OR ARC COPPER, SILVER SOLDER FITTINGS.

2.2 HVAC EQUIPMENT:

A. REFER TO SCHEDULE SHEETS AND EQUIPMENT LIST FOR MANUFACTURERS AND MODEL NUMBERS.

B. ALTERNATE MANUFACTURER'S ARE: LENNOX, YORK, MCQUAY, TITUS, CARRIER, SANYO, MITSUBISHI, TRANE, COOK, CARNES, TWIN CITY, ACME, METALAIRE

C. PROVIDE MINIMUM MERV 8 RETURN AIR FILTERS FOR AIR HANDLING EQUIPMENT.

2.3 AIR DISTRIBUTION:

A. METAL DUCTWORK: SHOP FABRICATED AS FOLLOWS.

- MATERIALS: GALVANIZED STEEL SHEET, ASTM A 527-85.
- CONSTRUCTION: PER SMACNA HVAC DUCT CONSTRUCTION STANDARDS FOR LOW PRESSURE SYSTEM UP TO 2" W.C. CONSTRUCTION.
- JOINT SEALANT: UL LISTED FOSTER MASTIC, HARDCAST FTA-20, KINGCO 18-136.
- SUPPLY AIR BRANCH DUCTS RUN IN CONCEALED AREAS MAY BE PRE-INSULATED, UL CLASS 1, FLEXIBLE DUCT - LIMIT LENGTH TO TEN FEET - USE RIGID DUCT FOR REMAINDER OF RUNOUT.
- WALL CAP SHALL BE ALUMINUM CONSTRUCTION WITH BACKDRAFT DAMPER, BIRDSCREEN AND HOOD. COLOR TO MATCH BUILDING FINISHES.

B. DAMPERS - AS MANUF. BY RUSKIN, CESCO, ARROW, CREATIVE METALS, PREFCO

- VOLUME DAMPERS SHALL BE GALVANIZED STEEL, 16 GAUGE, BLADE HEIGHT SHALL NOT EXCEED 12". DAMPER LINKAGE AND LOCKING QUADRANT SHALL BE OUTSIDE OF AIRSTREAM.
- MOTORIZED DAMPERS - REFER TO EQUIPMENT LIST ON DRAWINGS.
- SPLITTER DAMPER SHALL BE GALV. STEEL, FULL HEIGHT OF DUCT LESS LINER THICKNESS, W/ PIVOT PINS AND STEEL ROD TO EXTERIOR OF DUCT. PROVIDE LOCKING ADJUSTMENT.

C. ACCESS DOORS -

- FACTORY BUILT WITH SASH LOCKS, BUTT HINGE, GASKET, 24 GA. DOOR AND 22 GA. FRAME.
- ACCESS DOOR IN INSULATED DUCT SHALL BE DOUBLE CONSTRUCTION, WITH INSULATION ENCASED.
- MINIMUM SIZE TO BE 75% SIZE OF DUCT IN WHICH INSTALLED, OR 10" X 10".
- CESCO MODEL HAD-10, LOUVERS AND DAMPERS, KEES, INC. OR AIR BALANCE.

2.4 CONTROLS:

A. PROVIDE ALL RELAYS, TRANSFORMERS, CONTROL WIRING, TERMINAL BLOCKS, ETC. FOR A COMPLETE SYSTEM.

- COMPONENT MANUFACTURER'S AND MODEL NUMBERS AS SPECIFIED ON DRAWINGS.

B. THE WARRANTY PERIOD SHALL COMMENCE AFTER 60 DAYS OF BENEFICIAL USE, MEASURED FROM THE DATE OF ACCEPTANCE FROM THE OWNER.

3. EXECUTION

3.1 PIPING SYSTEMS:

A. VERIFY INVERT ELEVATIONS PRIOR TO EXCAVATION.

B. BACKFILL BURIED PIPE IN TRENCHES WITH DIRT FREE OF ROCK, STONE OR DEBRIS.

C. VERIFY EXACT LOCATION OF EQUIPMENT PRIOR TO ROUGH-IN.

D. COORDINATE ROUTING OF WORK WITH OTHER TRADES AND INSTALL TO ALLOW MAXIMUM HEADROOM CLEARANCES, SERVICE ACCESS AND MAINTAIN PROPER PITCH OF SLOPING LINES.

E. INSULATE PIPING SYSTEMS AS FOLLOWS:

- REFRIGERANT - 1" THICK CLOSED CELLULAR RUBBER
- HORIZONTAL CONDENSATE DRAIN - 1/2" THICK FIBERGLASS WITH ASJ.
- INSULATE HP S&R PIPING WITH 1" THICK FIBERGLASS W/ ASJ.
- SEAL VAPOR BARRIERS. SECURE WITH ADHESIVE AND SEAL JOINTS WITH SEALANT.
- PROVIDE GALVANIZED STEEL SADDLE AT HANGERS SURROUNDING INSULATED PIPE.
- DO NOT COMPRESS INSULATION EXCEPT IN AREAS OF STRUCTURAL INTERFERENCE.
- INSTALL PRE-FITTED PLASTIC ELBOWS OR APPLY CANVAS JACKET IN THREE LAYERS AT ELBOWS.
- INSULATE FITTINGS, VALVES AND EQUIPMENT BODIES.
- PROVIDE 2 COATS OF GREY WEATHERPROOF

F. PROVIDE SLEEVES FOR PIPING PENETRATING WALLS. INSULATION SHALL BE CONTINUOUS THROUGH SLEEVES.

G. FIRESTOP PIPING PASSING THROUGH FIRE RATED WALLS OR CEILINGS.

H. PATCH FINISHED AREAS DISTURBED BY WORK TO MATCH SURROUNDING AREAS.

I. WELDING SHALL BE DONE BY CERTIFIED WELDERS FOR THE APPROPRIATE SYSTEM BEING WELDED.

J. MAKE CONNECTIONS OF DISSIMILAR METALLIC PIPING WITH DIELECTRIC UNIONS.

K. DO NOT USE PLASTIC PIPING IN RETURN AIR PLENUM SPACES.

L. PROVIDE SHUT OFF VALVES AT EQUIPMENT CONNECTIONS.

M. HANGERS SUPPORTING COPPER PIPING SHALL BE COPPER PLATED OR PLASTIC COVERED. HANGERS SUPPORTING INSULATED PIPING SHALL BE SIZED TO SURROUND INSULATION AND STEEL SADDLE. FINISH ON EXTERIOR REFRIGERANT PIPING.

N. CLEAN AND FLUSH PIPING THEN TEST PIPING SYSTEMS AS FOLLOWS:

- REFRIGERANT PIPING - TO 100 PSIG W/ COMPRESSED AIR FOR FOUR HOURS AND TEST FITTINGS WITH FREON AND HALIDE LEAK DETECTOR.
- CONDENSATE DRAIN PIPING - W/ 10 FT. WATER COLUMN OR 5 PSI COMPRESSED AIR FOR 12 HOURS.
- TESTS SHALL SHOW NO SUBSTANTIAL LOSS IN PRESSURE.
- PIPING RUN IN CONCEALED AREAS SHALL BE LEAK TESTED PRIOR TO BEING CONCEALED.
- SUBMIT WRITTEN REPORT OF TEST RESULTS.

3.2 HVAC EQUIPMENT:

A. PROVIDE PERMANENT TAG ON EQUIPMENT INDICATING EXPIRATION DATE OF WARRANTIES. LOCATE TAG IN A READILY VISIBLE LOCATION.

B. PROVIDE FACTORY AUTHORIZED START-UP OF EQUIPMENT AND SUBMIT TEST REPORTS. (INCLUDE IN O&M MANUAL). COMPLY WITH MANUFACTURER REQUIREMENTS AND NOTES STATED ON THE CONSTRUCTION DOCUMENTS FOR INSTALLATION OF EQUIPMENT. BALANCE THE OUTSIDE AIR CFM TO QUANTITIES LISTED.

C. SPLIT SYSTEM UNITS:

- SUPPORT INDOOR UNIT FROM STRUCTURE WITH WALL MOUNT BRACKET. INSTALL TO ALLOW PROPER SERVICE ACCESS.
- PROVIDE CONDENSATE DRAIN PIPING AND EXTEND TO EXTERIOR - VERIFY TERMINATION POINT WITH LOCAL CODE OFFICIAL AND ARCHITECT.
- CONNECT REFRIGERANT PIPING AND CONTROL WIRING.

3.3 AIR DISTRIBUTION:

A. DUCTWORK:

- SEAL JOINTS IN DUCTWORK WITH COATING OF HARDCAST SEALANT OR UL LISTED FSK DUCT TAPE.
- INSTALL INTERNAL ENDS OF SLIP JOINTS IN DIRECTION OF AIRFLOWS.
- MAXIMUM ANGLE OF OFFSETS AND TRANSITIONS SHALL NOT EXCEED 30 DEGREES.
- ADEQUATELY SUPPORT DUCT AS PER CODE REQUIREMENTS - ELIMINATE SAGGING AND COMPRESSION OF DUCT
- TRANSITION DUCTS TO FIT EQUIPMENT. PROVIDE FLEXIBLE FLAME RETARDANT DUCT CONNECTIONS TO FURNACES AND GAS FIRED PACKAGED UNITS. USE LONG RADIUS RIGID DUCT FITTINGS AT ELBOWS IN FLEXIBLE DUCT FLEXIBLE DUCT EXCEEDING 60 DEGREE ANGLE. ELBOWS IN FLEXIBLE DUCT LESS THAN 60 DEGREE ANGLE SHALL BE LONG SWEEP TYPE.

B. INSULATE DUCT SYSTEMS PER CODE OR AS FOLLOWS, WHICHEVER IS MORE STRINGENT:

- WITHIN BUILDING STRUCTURE AND INSIDE OF BUILDING INSULATION ENVELOPE (OUTSIDE AIR, SUPPLY AND RETURN AIR DUCTS): ONE LB./CU.FT. DENSITY, 2" THICK FIBERGLASS, WITH FSK JACKET; OR WITH 3/8" THICK FOIL FACED AIR CELL INSULATION, REFLECTIX OR EQUAL.
- INSULATE SUPPLY AIR AND RETURN AIR DUCTS OUTSIDE OF BUILDING INSULATION WITH 3" THICK FIBERGLASS WITH FSK JACKET - MINIMUM R = 8.0 INSTALLED.
- EXHAUST AIR DUCTS: DO NOT INSULATE.
- SECURE INSULATION TO DUCTS W/ ADHESIVE AT 60% COVERAGE AND SECURE WITH MECHANICAL FASTENERS AND WASHERS AT 18" CENTERS - SEAL VAPOR BARRIER.

C. DAMPERS: ACTUATORS AND PUSH-RODS SHALL BE ACCESSIBLE.

- ACTUATORS AND PUSH-RODS SHALL BE ACCESSIBLE.
- PROVIDE COMBINATION DAMPER/EXTRACTOR/SPIN-IN FOR ROUND DUCT CONNECTIONS TO TRUNK DUCTS. PROVIDE 45 DEGREE BEVEL INLET WITH BALANCE DAMPER FOR RECTANGULAR DUCT CONNECTIONS TO TRUNK DUCT. DAMPER ADJUSTMENT TO BE LOCATED ON BOTTOM SIDE OF DUCT.

D. ACCESS DOORS - PROVIDE IN DUCT FOR ACCESS TO COILS, FILTERS, FIRE & MOTORIZED DAMPERS, AND ALL OTHER EQUIPMENT NOT OTHERWISE ACCESSIBLE. INSTALL TO ALLOW SERVICE ACCESS. PROVIDE LABEL ON ACCESS DOOR INDICATING DEVICE SERVED.

E. BALANCE AIR DISTRIBUTION TO WITHIN 10% OF DESIGN AND SUBMIT REPORT.

- REPORT SHALL IDENTIFY ZONES, DESIGN AIRFLOWS AND FINAL AIRFLOWS (SUPPLY AIR, RETURN AIR AND OUTSIDE AIR). SUPPLY AND RETURN STATIC PRESSURES, ENTERING AND LEAVING AIR TEMPERATURES.
- INCLUDE EXHAUST FAN SYSTEMS, AND HVAC EQUIPMENT.
- COMPLY WITH NEBB AND AABC REQUIREMENTS.

3.4 CONTROLS:

A. SEAL PROBE PENETRATIONS FOR DUCT MOUNTED SENSORS.

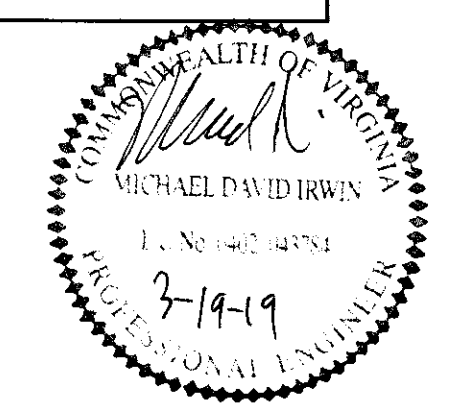
B. PROVIDE JUNCTION BOX HOUSING FOR CONTROL WIRING INTERLOCK TO COMPONENTS.

C. ROUTE CONDUCTORS NEATLY AND PARALLEL OR PERPENDICULAR TO BUILDING CONSTRUCTION. WIRING AND CONDUCTORS IN FINISHED SPACES TO BE RUN CONCEALED.

D. SEQUENCE OF CONTROL

- ON A CALL FOR HEAT - BLOWER AND HEAT COMPRESSOR SHALL BE ENABLED.
- ON A CALL FOR COOLING - BLOWER AND COOL COMPRESSOR SHALL BE ENABLED.

NO INSPECTION WILL BE MADE UNLESS APPROVED SET OF PLANS IS ON FILE



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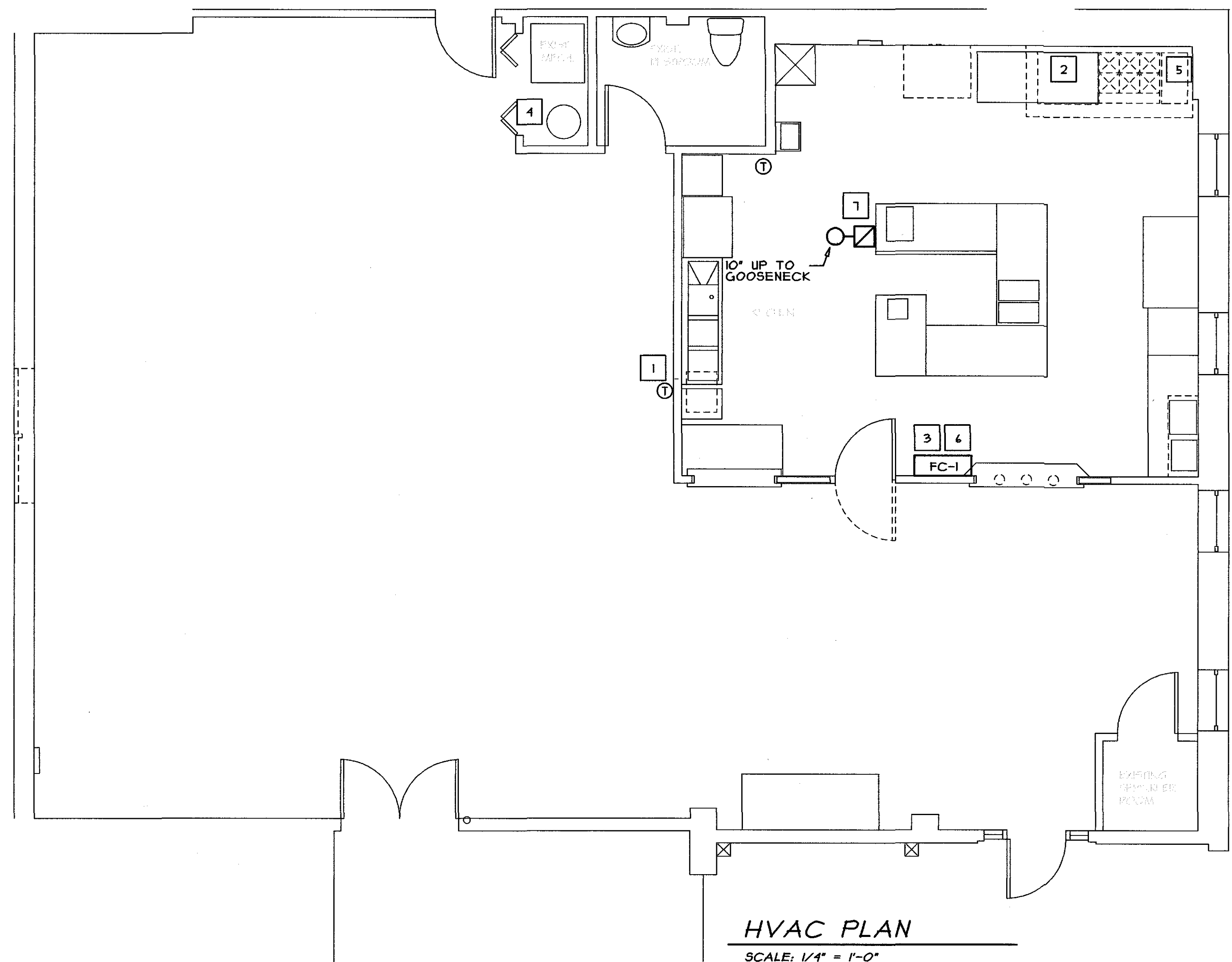
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JOB: KITCHEN FOR WORT HOG BREWERY
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SHEET: HVAC SPECIFICATIONS

JOB NUMBER: 19006
 DRAWN: RBP
 SCALE: 1/4" = 1'-0"
 DATE: 03-19-19

DWG: M-1
 REVISION:



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

DEMOLITION NOTES

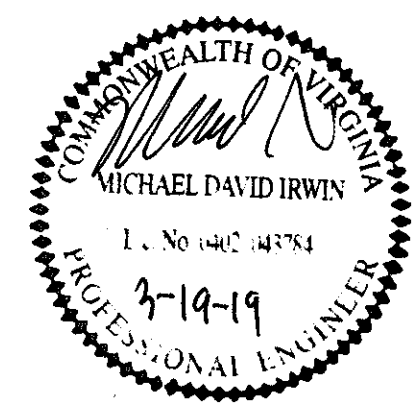
- REMOVE MECHANICAL ITEMS AS SHOWN OR AS REQUIRED TO CLEAR AREAS OF NEW CONSTRUCTION.
- ITEMS TO REMAIN IN USE WHICH ARE DISTURBED BY NEW CONSTRUCTION SHALL BE REMOVED, CLEANED AND REINSTALLED TO ORIGINAL WORKING ORDER.
- LOCATIONS AND DIMENSIONS OF EXISTING EQUIPMENT AND SYSTEMS INDICATED ON THE PLANS ARE TAKEN FROM DRAWINGS DATED 4-15-85 AND FURNISHED BY THE OWNER. CONFIRM ALL LOCATIONS AND DIMENSIONS ON SITE OF THE EXISTING HVAC SYSTEMS. ADVISE THE ARCHITECT OF ANY CONFLICTS OR DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL CONDITIONS.
- PROPERLY EVACUATE AND CAPTURE REFRIGERANT IN ACCORDANCE WITH APPLICABLE REGULATIONS. STORE OR DISPOSE OF CAPTURED REFRIGERANT AS DIRECTED BY THE OWNER.
- CAP PIPING SYSTEMS TO BE ABANDONED TO BEYOND FINISHED SURFACES.

KEYED NOTES

- RELOCATE EXISTING THERMOSTAT TO THIS LOCATION (EXISTING FURNACES).
- WHEN COOKLINE AND HOOD ARE INSTALLED AND OPERATIONAL, ADDITIONAL COOLING WILL BE NEEDED.
- FC-1 IS OWNER PROVIDED FAN COIL UNIT. MITSUBISHI MODEL MSZ-D34NA, 208/1, 23,200 COOLING, 35,200 HEATING. UNIT REQUIRES NEW REFRIGERATION COPPER, DRAINS, AND CONTROL WIRING FROM THE OUTDOOR UNIT PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- RELOCATE ALL SUPPLY GRILLES IN KITCHEN THAT ARE CONNECTED TO THE EXISTING FURNACE BACK TO LARGE AREA. PROVIDE FLEX AND MATCHING SUPPLY GRILLES.
- KITCHEN HOOD AND MAKE UP AIR NOT IN CONTRACT. DESIGN BY OTHERS.
- SET OWNER PROVIDED MITSUBISHI HEAT PUMP, MODEL MUZ-D34NA 208/230, PHASE I, MAX FUSE 25 AMP, ON ROOF ABOVE KITCHEN BETWEEN THE TWO WINDOWS ON THE NORTH SIDE OF THE EXISTING DAIKENS UNIT, MODEL RX24NHVJU. UNIT WILL MOUNT ON BUILDING NUMBER THREE WALL WITH BRACKETS, LIKE THE DAIKENS UNIT IS MOUNTED.
- CEILING MOUNTED VENTILATOR (BROAN L500K), 350 CFM AT 0.425, 120 VOLTS, 4.3 AMPS. EXTEND 10" EXHAUST PIPE UP THROUGH ROOF TO GOOSE NECK WITH 1/4 MESH OR 10" ROOF CAP.

SYMBOLS	
☒	SUPPLY DUCT
☑	RETURN OR EXHAUST DUCT
Ⓣ	THERMOSTAT-MTD, 48" AFF
Ⓐ	INDICATES AIR OUTLET OR INLET (SEE SCHEDULE); TOP LETTER INDICATES GRID TYPE (SEE SCHEDULE); BOTTOM NUMERAL INDICATES CFM FOR BALANCING
⊕	DUCT TRANSITION

ABBREVIATIONS	
CD	CEILING DIFFUSER
DN	DOWN
EA	EXHAUST AIR
KH	KITCHEN HOOD
MTD.	MOUNTED
OA	OUTSIDE AIR
RA	RETURN AIR
RG	RETURN GRILLE
SA	SUPPLY AIR
TYP	TYPICAL



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