

GENERAL CONDITIONS:

1. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND SUBCONTRACTORS TO MAKE THEMSELVES FAMILIAR WITH THE GENERAL CONDITIONS, PLANS, AND SPECIFICATIONS AND OTHER NOTES OR REFERENCES RELATED TO THIS PROJECT SO AS TO POSSESS FULL COMPREHENSION OF THE WORK THEY ARE TO PERFORM. ANY DISCREPANCIES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT.

2. NOTHING IN THE PLANS, SPECIFICATIONS, NOTES OR REFERENCES SHALL BE INTERPRETED SO AS TO ELIMINATE ANY REQUIREMENTS OR PROVISIONS OF NATIONAL, STATE, COUNTY, OR LOCAL BUILDING CODES AND ORDINANCES. ALL CONTRACTORS ARE RESPONSIBLE FOR FULL KNOWLEDGE OF, AND COMPLIANCE WITH THE AFOREMENTIONED REGULATIONS AND SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR CONFLICTS BEFORE **BEGINNING THEIR WORK.**

3. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VISIT THE SITE TO VERIFY ALL FIELD CONDITIONS AND DIMENSIONS RELATED TO THEIR WORK. THE GENERAL CONTRACTOR SHALL THEN SUBMIT A WRITTEN PROPOSAL OF HIS SCOPE OF WORK TO DOMINO'S FOR AN APPROVAL. ANY DISCREPANCIES OR CONFLICTS SHALL BE REPORTED TO THE ARCHITECT BEFORE BEGINNING CONSTRUCTION.

4. THE GENERAL CONTRACTOR SHALL CONSULT WITH THE SUBCONTRACTORS AND COORDINATE THE WORK IN ORDER TO ADHERE TO THE SCHEDULE AGREED UPON BY DOMINO'S.

5. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE FOLLOWING:

A. PROVIDE SCHEDULE OF WORK TO DOMINO'S PRIOR TO COMMENCING CONSTRUCTION.

B. OBTAINING ANY AND ALL PERMITS.

C. SCHEDULING ALL INSPECTIONS.

D. PROVIDING CERTIFICATE OF OCCUPANCY AND FINAL HEALTH INSPECTION.

THE CONTRACTOR SHALL PROVIDE THE FOLLOWING WITH FINAL INVOICE: 1) ORIGINAL OR CLEAR PHOTO COPIES OF CERTIFICATE OF OCCUPANCY PERMIT AND HEALTH INSPECTION REPORT 2) LISTING OF SUBCONTRACTORS AND AREA OF RESPONSIBILITY, COMPLETE WITH TRADE NAME, OWNER'S NAME, ADDRESS, TELEPHONE NUMBER AND FEDERAL ID NUMBER. 3) PROPERLY EXECUTED LIEN WAIVER. 4) SERIAL NUMBERS, DATE OF MANUFACTURE OF ALL INSTALLED HVAC EQUIPMENT,

6. UNLESS INDICATED "BY OTHERS" ON THE PLANS OR IN THE SPECIFICATIONS OR OTHERWISE DIRECTED BY DOMINO'S. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL SUPPLY ALL LABOR AND MATERIALS AND MISCELLANEOUS ITEMS, NOT SPECIFICALLY SHOWN ON THE PLANS OR IN THE SPECIFICATIONS BUT OBVIOUSLY NECESSARY FOR THE COMPLETE AND PROPER INSTALLATION OF THEIR ELEMENTS OF WORK.

MAKELINE AND WALK-IN COOLER BOX.

7. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL TURN OVER ALL WRITTEN OPERATING INSTRUCTIONS AND WARRANTIES FOR EQUIPMENT TO THE OWNER AT THE COMPLETION OF WORK.

8. ALL WORK PERFORMED BY THE CONTRACTOR AND SUBCONTRACTORS, INCLUDING MATERIALS AND LABOR SHALL BE GUARANTEED IN WRITING FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY DOMINO'S.

9. THE GENERAL CONTRACTOR AND SUBCONTRACTORS, AT THE COMPLETION OF THEIR WORK, SHALL LEAVE THE SITE CLEAN AND FREE OF DEBRIS RELATED TO THEIR WORK, AND THE STORE FINISHED TO PASS HEALTH INSPECTIONS AND MADE READY TO COMMENCE WITH THE BUSINESS OF FOOD PREPARATION.

10. THE USE OF BRAND NAMES, CATALOGUE NUMBERS OR NAMES OF MANUFACTURERS IS SOLELY FOR THE PURPOSE OF ESTABLISHING THE TYPE AND QUALITY THAT WILL BE ACCEPTABLE. UNLESS SPECIFICALLY PROHIBITED IN THE SPECIFICATIONS, SUBSTITUTION WILL BE PERMITTED AFTER SUBMITTAL TO AND WRITTEN APPROVAL BY DOMINO'S.

11. IT IS RECOMMENDED THAT THE CONTRACTOR ACQUIRE THE DESIGN AND EQUIPMENT BROCHURES FROM DOMINO'S EQUIPMENT & SUPPLY FOR REFERENCE WITH THESE DOCUMENTS.

12. GC IS RESPONSIBLE FOR MEANS AND METHODS FOR INSTALLATION OF WORK INDICATED ON THESE DRAWINGS.

13. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ADDITIONAL DESIGN / BUILD INFORMATION, WHICH MAY BE REQUIRED BY LOCAL CODE AUTHORITIES, WHICH MEETS THE DESIGN CRITERIA IN THESE DOCUMENTS.

GENERAL NOTES:

1. THE OWNER HAS REQUESTED THAT THE ARCHITECT PREPARE THESE DRAWINGS, WHICH ARE LIMITED IN SCOPE, TO ESTABLISH MINIMUM GUIDELINES FOR DESIGN OF THE PROJECT.

2. WHERE MATERIALS, ASSEMBLIES, EQUIPMENT, FIXTURES AND SYSTEMS ARE NOT SHOWN, OR ARE SHOWN DIAGRAMMATICALLY, IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO DETERMINE SPECIFIC LOCATIONS, PROVIDE SPECIFIC MATERIALS AND DETERMINE CONSTRUCTION DETAILING, ALL IN COMPLIANCE WITH APPLICABLE BUILDING CODES REGULATIONS, AND INDUSTRY STANDARDS FOR MATERIALS AND METHODS OF INSTALLATION.

3. ALL DRAWINGS HAVE BEEN PREPARED WITH THE INTENT OF CURRENT CODE COMPLIANCE. IT IS THE **RESPONSIBILITY OF THE GENERAL CONTRACTOR TO** ENSURE FULL COMPLIANCE WITH PREVAILING STATE OR LOCAL CODE REQUIREMENTS.

4. DO NOT SCALE THE DRAWINGS. IF DIMENSIONAL DISCREPANCIES ARISE, CONTACT THE ARCHITECT.

5. DIMENSIONS OF THE EXISTING TENANT SPACE AND NEW DIMENSIONS WHICH RELATE TO THOSE EXISTING DIMENSIONS ARE ASSUMED AND TAKEN FROM INFORMATION PROVIDED BY THE OWNER OR OWNERS REPRESENTATIVES. IT IS IMPERATIVE THAT PRIOR TO THE ORDERING OF PREFABRICATED EQUIPMENT OR COMMENCING CONSTRUCTION THESE DIMENSIONS ARE FIELD VERIFIED TO AVOID CONFLICTS.

6. ANY DISCREPANCIES BETWEEN PORTIONS OF THE DOCUMENTS ARE NOT INTENDED. THE GENERAL CONTRACTOR IS TO CLARIFY WITH THE ARCHITECT ANY SUCH DISCREPANCIES PRIOR TO COMMENCING WORK.

7. ALL DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTED OR LABELED FINISHED OPENING (F.O.).

8. ALL CONSTRUCTION SHALL COMPLY WITH THE APPLICABLE BUILDING CODES AND LOCAL DESCRIPTIONS.

9. ALL ELECTRICAL, MECHANICAL AND PLUMBING WORK SHALL CONFORM TO STATE AND LOCAL REQUIREMENTS.

10. CONSTRUCTION MAY NOT BEGIN UNTIL APPROVAL HAS BEEN GRANTED BY DOMINO'S. THESE DRAWINGS ARE SUBJECT TO DOMINO'S APPROVAL.

3901 BLUE RIDGE CUTOFF KANSAS CITY, MO 64133 TEL: (816)501-8388 E: SCOVEY@DTPIZZA.ORG

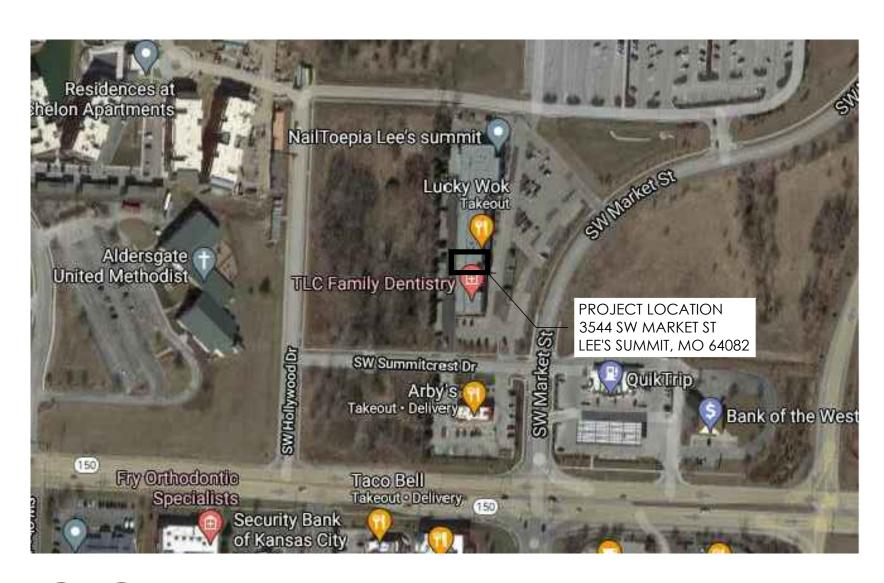
ARCHITECT CONTACT INFORMATION

PORTLAND, OR 97214 TEL: (503) 552-9079 FAX: (503) 241-7055 ATTN:

FIRE ALARM SYSTEM

KITCHEN HOOD FIRE SUPPRESSION SYSTEM

FIRE SUPPRESSION / SPRINKLER SYSTEM



PROJECT DIRECTORY:

OWNER / DEVELOPER

- DESZ MANAGEMENT LLC DBA DOMINO'S
- **GNICH ARCHITECTURE STUDIO, LLC** AN OREGON LIMITED LIABILITY COMPANY 1001 SE SANDY BLVD, SUITE 100
 - DAVID COBIELLA, PROJECT MANAGER DAVIDC@GNICHARCH.COM

SUBMITTALS BY OTHERS:

EXTERIOR SIGNAGE

SIGN VENDOR SHALL BE RESPONSIBLE FOR PREPARING DRAWINGS AND OBTAINING SEPARATE SIGNAGE PERMITS AS REQUIRED BY LOCAL JURISDICTION.

- DESIGN/BUILT. G.C. SHALL BE RESPONSIBLE FOR PREPARING DRAWINGS AND OBTAINING ALL BUILDING PERMITS AS REQUIRED BY LOCAL JURISDICTION.
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DOMINO'S PIZZA BAKERY STORE #1684 **PIZZA THEATER TENANT IMPROVEMENT** 3544 SW MARKET ST LEE'S SUMMIT, MO 6408

DRAWING INDEX:

GENERAL INFORMATION

G1.0 COVER SHEET G2.0 CONSTRUCTION SPECIFICATIONS/ ACCESSIBILITY DETAILS

ARCHITECTURA

- FLS1.0 FIRE/ LIFE SAFETY PLAN A1.0 EQUIPMENT LAYOUT/ COUNTER CABINETS/
- A2.0 PARTITION & FINISH PLAN/
- DETAILS/ MATERIAL SCHEDULE/ DOOR SCHEDULE A3.0 REFLECTED CEILING PLAN/ DETAILS
- A4.0 INTERIOR ELEVATIONS/ ART PACKAGE SCHEDULE
- A5.0 INTERIOR ELEVATIONS
- A6.0 INTERIOR DETAILS

ELECTRICAL

- E1.0 ELECTRICAL ONE-LINE DIAGRAM/ PANEL
- SCHEDULE/ CALCULATIONS E2.0 ELECTRICAL LIGHTING PLAN
- E3.0 ELECTRICAL POWER PLAN

MECHANICAL

- M1.0 MECHANICAL SCHEDULES, CALCULATIONS AND LEGEND
- M2.0 MECHANICAL PLAN M3.0 MECHANICAL DETAILS AND SEQUENCE OF
- **OPERATIONS** M4.0 MECHANICAL DETAILS
- M5.0 MECHANICAL ENERGY CERTIFICATE M6.0 MECHANICAL GENERAL NOTES AND SPECIFICATIONS

PLUMBING

- P1.0 PLUMBING LEGEND, CALCULATIONS AND
- SCHEDULES
- P2.0 POTABLE WATER & GAS PLUMBING PLAN P2.1 SANITARY SEWER PLUMBING PLAN
- P3.0 PLUMBING DETAILS
- P4.0 PLUMBING SPECIFICATIONS AND GREASE INTERCEPTOR SIZING & DATA

SYMBOL LEGEND

0 A0.0	SECTION REFERENCE
\bigcirc	DOOR SCHEDULE REFERENCE
ę	CENTERLINE
XX-00	MASTER MATERIAL SCHEDULE REFERENCE
\bigcirc	EQUIPMENT SCHEDULE REFERENCE
XO	ART PACKAGE REFERENCE
\rightarrow	WALL ASSEMBLY TYPE REFERENCE
CC-00	CABINET SCHEDULE REFERENCE
(FN-00)	FURNITURE SCHEDULE REFERENCE
	ELEVATION REFERENCE
	ENLARGED DETAIL REFERENCE
Δ	REVISION TAG



REVISION CLOUD

PROJECT STATISTICS:

SCOPE

THIS DOMINO'S PIZZA THEATER TENANT IMPROVEMENT PROJECT INCLUDES; THE ADDITION OF NEW INTERIOR PARTITIONS, CASEWORK, FIXED FURNITURE, KITCHEN EQUIPMENT, PLUMBING FIXTURES, ELECTRICAL DISTRIBUTION AND MECHANICAL SYSTEMS FOR A RETAI FOOD BAKERY AND STORE.

CODE SUMMARY

UILDING CODE	2018 IBC
IECHANICAL CODE	2018 IMC
LUMBING CODE	2018 IPC
NERGY CODE	2018 IECC
UEL GAS CODE	2018 IFGC
IRE CODE	2018 IFC
LECTRICAL CODE	2017 NEC

ICC/ANSI A117.1-2009, ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES

DOMINO'S PIZZA BAKERY IS INTENDED PRIMARILY FOR DELIVERY AND CARRY OUT WITH MINIMAL SEATING FOR WAITING CUSTOMERS.

IBC SECTION 303.1

EXCEPTION 1. A BUILDING OR TENANT SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY.

BUILDING DATA

CONSTRUCTION TYPE AUTOMATIC SPRINKLER SYSTEM YES

TOTAL AREA OF DOMINO'S TENANT SPACE:

OCCUPANT LOAD SUMMARY

OCCUPANCY CLASSIFICATION: GROUP B (LESS THAN 50 OCCUPANTS)

IBC SECTION 303.1

1,220 S.F. GROSS

EXCEPTION 2. A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY OR AS PART OF THAT OCCUPANCY.

EXCEPTION 3. A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES THAT IS LESS THAN 750 SQUARE FEET IN AREA AND ACCESSORY TO ANOTHER OCCUPANCY SHAL BE CLASSIFIED AS A GROUP B OCCUPANCY OR AS PART OF THAT OCCUPANCY.

LOBBY AREA GROSS AREA = 106 S.F. LOAD FACTOR @ 1/100 BUSINESS OCCUPANT LOAD = 2

PRODUCTION AREA GROSS AREA = 472 S.F. LOAD FACTOR @ 1/200 KITCHEN, COMMERCIAL OCCUPANT LOAD = 3

STORAGE AREA GROSS AREA = 591 S.F.LOAD FACTOR @ 1/300 ACCESSORY STORAGE OCCUPANT LOAD = 2

TOTAL OCCUPANT LOAD = 7

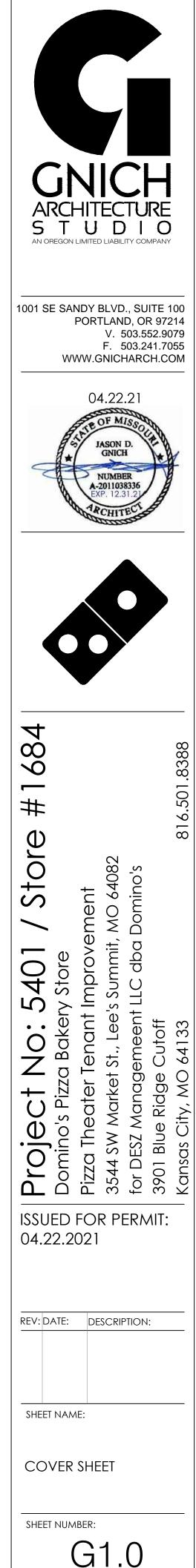
EXITS: CUSTOMER AREA = 1 TOTAL EXITS = 2

7 PERSONS IN THIS SPACE X .20" / PERSON = 1.4 INCHES MIN. REQ'D EXIT WIDTH PROVIDED = 73.5 INCHES PROVIDED

TOILETS: TOTAL NUMBER OF TOILET FACILITIES = 1 PROVIDED

SCHEDULES

	ESF T							
ITEM	PROVIDED BY OWNER	INSTALLED BY OWNER	PROVIDED BY VENDOR	Provided by G.C.	NSTALLED BY G.C.	INSTALLED BY VENDOR	BY SUB-CONTRACTOR PROVIDED AND INSTALLED E = ELECITRCAL E = ELECITRCAL E = PLUMBING F = HV.A.C. FP = FIRE PROTECTION K = KITCHEN EQUIPMENT	REMARKS
DIVISION 01 - GENERAL REQUIREMENTS	<u>I</u>	I≧	Ъ	đ	Z	≧	άζηνστιτ	
PERMITS, FEES, AND INSURANCE PROFESSIONAL CLEANING	\mp			•				
TEMPORARY POWER / WATER CERTIFICATE OF OCCUPANCY	+			•	•			
DUMPSTER / TRASH REMOVAL	\mp			•	•			
DIVISION 02 - SITE WORK								<u> </u>
TRENCHING AND BACKFILL SHORING AND BRACING	+			•	•			
TEMPORARY BARRICADES PAVING PATCHING AND REPAIR	+			•	•			COORDINATE REQUIREMENTS w/ CITY AUTHORITIES
DIVISION 03 - CONCRETE								
FLOOR SLAB CUTTING	\Box			•				AS REQUIRED
CONCRETE SLAB PATCHING AND REPAIR				•	•			
DIVISION 04 - MASONRY				_			- 	
CLAY MASONRY UNITS CONCRETE MASONRY UNITS	\pm			•				
DIVISION 05 - METALS						<u> </u>		
LIGHT GAUGE METAL FRAMING COLD FORMED METAL FRAMING	+			•				
				-				
DIVISION 06 - WOOD AND PLASTICS MISCELLANEOUS BLOCKING	\top			•	•			
WOOD MOLDINGS AND TRIM FRAMING LUMBER	+			•	•			
FIRE RETARDANT LUMBER / PLYWOOD MILLWORK	•				•			
PVC TRIM, CHAIR RAIL AND CORNER GUARDS				•	•			
DIVISION 07 - THERMAL AND MOISTURE PROTECTION								
INSULATION (DUCTWORK) SEALANTS, FIRESTOPPING AND CAULKING	+			•			Н	
BATT, RIGID AND FOAMED INSULATION SOUND BATT INSULATION	+			•	-			IF REQUIRED
DIVISION 08 - DOORS AND WINDOWS				_	_			
DIVISION 09 - FINISHES ACOUSTICAL CEILINGS AND SUSPENSION SYSTEMS GYPSUM BOARD (WALLS, SOFFITS AND CEILINGS) FLOOR TILE				•	•			
VINYL AND / OR SEAMLESS BASE REDUCERS AND TRANSITION STRIPS	+			•	•			
PAINTS AND COATINGS SHEET GOODS	+			•	•			
DIVISION 10 - SPECIALTIES EXTERIOR SIGNAGE	•	•						
EXTERIOR AWNING INTERIOR GRAPHICS PACKAGE (DOOR SIGNS, ETC.)	•		•		•	•		IF REQUIRED
	-			•				
TOILET ROOM ACCESSORIES								
TOILET ROOM ACCESSORIES DIVISION 11 - EQUIPMENT COMPUTERS / DATA	_	•						E.C. TO RUN CONDUIT IF REQUIRED BY LOCAL MUNICIPALITY
TOILET ROOM ACCESSORIES DIVISION 11 - EQUIPMENT COMPUTERS / DATA TELECOMMUNICATIONS EQUIPMENT VIDEO EQUIPMENT	•	•					K	
TOILET ROOM ACCESSORIES DIVISION 11 - EQUIPMENT COMPUTERS / DATA TELECOMMUNICATIONS EQUIPMENT	•	•			•		К	
TOILET ROOM ACCESSORIES DIVISION 11 - EQUIPMENT COMPUTERS / DATA TELECOMMUNICATIONS EQUIPMENT VIDEO EQUIPMENT KITCHEN EQUIPMENT DIVISION 12 - FURNISHINGS	•	•			•		К	
TOILET ROOM ACCESSORIES DIVISION 11 - EQUIPMENT COMPUTERS / DATA TELECOMMUNICATIONS EQUIPMENT VIDEO EQUIPMENT KITCHEN EQUIPMENT	•	•					K	
TOILET ROOM ACCESSORIES DIVISION 11 - EQUIPMENT COMPUTERS / DATA TELECOMMUNICATIONS EQUIPMENT VIDEO EQUIPMENT KITCHEN EQUIPMENT DIVISION 12 - FURNISHINGS SEATING MISCELLANEOUS DECOR ITEMS DIVISION 13 - SPECIAL CONSTRUCTION	• • • •	•					K	
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CONSTRUCTION SPECIFICATIONS:

01-73-00 DEMOLITION, CUTTING AND PATCHING

DEMOLITION SHALL BE COORDINATED AS REQUIRED AT THE EXISTING SPACE FOR NEW CONSTRUCTION TO COMMENCE. PRECAUTIONS SHALL BE TAKEN TO AVOID DAMAGE TO ADJACENT PORTIONS OF THE EXISTING BUILDING AND TENANT SPACE. THE CONTRACTOR SHALL BE LIABLE FOR ANY AND ALL DAMAGES AND SHALL EFFECT REPAIRS IMMEDIATELY.

03-30-00 CONCRETE

ALL NEW CONCRETE SHALL HAVE A MIN. 28-DAY STRENGTH OF 2500 PSI. HIGHER STRENGTH CONCRETE MAY BE USED, AT OWNER'S DISCRETION, FOR FINISH AND DURABILITY PURPOSES.

CONCRETE POURBACK-3000 PSI 4-INCH-DEPTH W/#3 RE-BAR @ 24-INCH O.C. AND 6-INCH DOWELING EMBEDMENT.

06-10-00 ROUGH CARPENTRY

ALL NEW INTERIOR PARTITIONS SHALL BE 3-5/8" 20 GA. METAL STUDS @ 16" MIN. O.C. WITH 5/8" GYPSUM BOARD BOTH SIDES, UNLESS NOTED OTHERWISE IN "WALL TYPES" SCHEDULE. 3-1/2" DOUGLAS FIR WOOD FRAMING MAY BE USED IN LIEU OF METAL FRAMING.

GYPSUM BOARD SHALL BE SCREWED 16" O.C. AT INTERMEDIATE STUDS AND 8" O.C. AT JOINTS. ALL JOINTS AND CORNERS SHALL BE TAPED AND SMOOTH FINISHED WITH A THREE COAT PROCESS AT CUSTOMER LOBBY AREAS. WHEN FRP BOARD IS TO BE INSTALLED IN THE NON-CUSTOMER LOBBY AREAS, TAPE AND ONE COAT IS SATISFACTORY.

INSTALL ADEQUATE BLOCKING MATCHING ADJACENT FRAMING AND 5/8" CDX PLYWOOD SHEATHING INSTEAD OF GYPSUM BOARD BEHIND ALL PLUMBING FIXTURES, BARRIER-FREE GRAB BARS, SHELVING, AND ALL WALL-MOUNTED FOOD SERVICE AND COMPUTER EQUIPMENT. REFER TO EQUIPMENT LAYOUT & INTERIOR ELEVATION DRAWINGS FOR LOCATIONS.

IF REQUIRED BY THE MUNICIPALITY, ALL WOOD BLOCKING AND BACKING TO BE FIRE-RETARDANT TREATED.

06-60-00 FIBERGLASS REINFORCED PLASTIC (FRP) PANELS

WALL COVERINGS NOT VISIBLE FROM CUSTOMER LOBBY MARLITE WHITE OR EQUIVALENT FRP (FIBERGLASS REINFORCED PLASTIC) PANELING TO THE UNDERSIDE OF THE SUSPENDED CEILING MINIMUM, WHITE IN COLOR WITH A TEXTURED FINISH. MANUFACTURER RECOMMENDED ADHESIVE SHALL BE USED TO MOUNT THE FRP PANELING. MATCHING TRIM SHALL BE INSTALLED AT THE JOINTS, INSIDE CORNERS AND EXPOSED EDGES. PANELING SHALL BE FROM THE PREMIUM GRADE LINE.

08-11-00 DOORS

INTERIOR DOOR IN THE CUSTOMER AREA (IF APPLICABLE) MUST BE GLASS WITH A BRUSHED ALUMINUM FRAME.

DOORS IN THE STORAGE. CLEANUP UP AREAS AND OFFICE MUST BE SOLID WOOD AND PAINTED WHITE IN COLOR.

DOORS IN THE CUSTOMER RESTROOMS MUST BE SOLID WOOD AND PAINTED RED IN COLOR.

A STAINLESS STEEL KICK PLATE, UP TO 2' IN HEIGHT MUST BE APPLIED TO THE BOTTOM OF ANY INTERIOR OR EXTERIOR DOOR.

ALL DOORS SHALL BE DESIGNED SO THAT THEY DO NOT OPEN TO THE INSIDE AND SHALL BE EQUIPPED WITH A SELF-CLOSING DEVICE.

ALL DOORS SHALL BE DESIGNED SO THAT THEY CAN BE TIGHTLY CLOSED ON ALL SIDES TO PREVENT THE ENTRANCES OF INSECTS, BIRDS, AND RODENTS INTO THE FACILITY.

08-80-00 WINDOWS AND GLAZING

OFFICE SECURITY WINDOW: 24"W X 36"H FIXED PANEL MIRRORED GLASS WINDOW SHALL BE INSTALLED AT THE MANAGER'S OFFICE AS SHOWN ON THE FLOOR PLAN. HEAD HEIGHT SHALL BE 6'-8" A.F.F. VERIFY W/ ELEVATION. FRAME SHALL BE HOLLOW METAL WITH GLASS STOPS AND RESILIENT MOUNTING STRIPS TO RECEIVE ONE-WAY REFLECTIVE GLASS.

ALL WINDOWS IN THE PRODUCTION AREA MUST REMAIN CLOSED.

ALL EXTERIOR WINDOWS WHICH ARE CAPABLE OF BEING OPENED WILL HAVE REMOVABLE SCREENS.

ALL GLAZING SHALL BE FREE OF CRACKS, SCRATCHES, CHIPS AND ANY OTHER DEFECTS OR IMPERFECTIONS AND SHALL BE INSTALLED TO PROVIDE A PROPER FIT SO AS NOT TO BIND IN THEIR FRAMES AND TO ALLOW FOR EASE IN REPLACEMENT.

THE STORAGE AREA, CLEAN UP AREA AND OFFICE AREA CAN NOT BE VISIBLE FROM OUTSIDE THE STORE. WINDOWS WITH VIEWS INTO THESE AREAS MUST BE COVERED IN OPAQUE BLACK FILM OR APPROVED VINYL WINDOW GRAPHICS.

THE PRODUCTION AREA MAY BE VISIBLE FROM OUTSIDE THE STORE AS LONG AS THE BACKS OF EQUIPMENT ARE NOT PLACED DIRECTLY IN FRONT OF A WINDOW AND ARE VISIBLE FROM OUTSIDE THE STORE.

09-31-00 CERAMIC AND QUARRY TILE

GENERAL CONTRACTOR TO PROVIDE A SMOOTH CONCRETE SLAB READY FOR INSTALLATION OF FLOOR COVERING AS PER PLANS.

REFER TO MATERIAL SCHEDULE FOR FRONT OF HOUSE AND BACK OF HOUSE FLOOR COVERING SPECIFICATIONS.

CERAMIC AND QUARRY TILE CON'T.

ALL CERAMIC & QUARRY TILE SHALL BE INSTALLED WITH THIN SET ADHESIVES FURNISHED BY THE TILE MANUFACTURER. ALL TILE SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.

ALL FLOOR TILE SHALL BE SET IN A MANNER WHICH WILL MINIMIZE CUTTING.

ALL FLOOR TILE SHALL BE ACID CLEANED AFTER GROUTING PER THE MANUFACTURER'S INSTRUCTIONS. NO SEALANTS SHALL BE APPLIED TO THE TILE.

09-50-00 SUSPENDED CEILINGS

SUSPENDED CEILINGS SHALL BE INSTALLED IN ACCORDANCE W/ CURRENT IBC, AMERICAN SOCIETY OF TESTING MATERIALS C635 & C636 AS WELL AS AMERICAN SOCIETY OF CIVIL ENGINEERS 7-02 & CEILING AND INTERIOR SYSTEMS CONSTRUCTION ASSOCIATION.

A SUSPENDED CEILING T-BAR SYSTEM SHALL BE PROVIDED BY THE GENERAL CONTRACTOR AND SHALL HAVE A BAKED ENAMEL SEMI-GLOSS FINISH. THE SYSTEM SHALL HAVE A CLASS "A" RATING AND SHALL BE A "SNAP-GRID" SYSTEM.

ALL CEILINGS MUST BE INSTALLED AT 90 DEGREES TO THE DEMISING WALLS. DIAGONAL PATTERNS ARE NOT ALLOWED.

MINIMUM OF 9' IN HEIGHT FROM FINISHED FLOOR. MAXIMUM OF 12', UNLESS NOTED OTHERWISE ON REFLECTED CEILING PLAN.

CEILING FANS ARE NOT ALLOWED IN THE PRODUCTION AREA, FOOD PREPARATION AREA, CUSTOMER AREA, OR WITHIN CUSTOMER VIEW IN THE STORE.

09-90-00 PAINT

ALL PAINT SHALL BE EGGSHELL OR SATIN FINISH UPON DRYING. REFER TO MATERIAL SCHEDULE.

NEW WALL SURFACES SHALL RECEIVE ONE PRIMER COAT AND TWO FINISH COATS. PAINT SHALL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND SHALL PROVIDE A SMOOTH, CLEANABLE, FINISHED SURFACE WITH UNIFORM COLOR THROUGHOUT.

10-14-00 SIGNAGE

REQUIRES SEPARATE PERMIT BY OTHERS, REVIEW & APPROVAL PRIOR TO INITIATING SUCH WORK.

ACCESSIBLE SIGNAGE

MOUNTING HEIGHTS AND LOCATIONS PER PLANS.

EXTERIOR SIGNAGE:

PRE-FABRICATED AND PRE-FINISHED CUSTOM MANUFACTURED SIGNAGE SHALL BE FURNISHED AND INSTALLED BY THE OWNER/ OWNER'S SIGN VENDOR. SIGNAGE SHALL BE PURCHASED FROM AN APPROVED SIGNAGE VENDOR.

ALL STORES SHALL HAVE A MINIMUM OF ONE STOREFRONT FASCIA SIGN (UNLESS OTHERWISE RESTRICTED BY MUNICIPALITY OR LANDLORD).

SECONDARY BUILDING SIGNAGE IS DEFINED AS SIGNAGE INSTALLED ANYWHERE ON THE BUILDING OTHER THAN THE STOREFRONT.

ALL SIGNS IN CUSTOMER VIEW MUST BE IN GOOD REPAIR WITH ALL LIGHTS FUNCTIONING.

ONLY VENDORS APPROVED BY DOMINO'S PIZZA, LLC MAY MANUFACTURE OR SELL SIGNS.

IT IS THE SIGNAGE MANUFACTURER'S RESPONSIBILITY TO ENSURE THE SIGNAGE IS DESIGNED, CONSTRUCTED, ATTACHED AND INSTALLED IN STRICT ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND ORDINANCES. SIGNAGE MANUFACTURER TO PROVIDE DRAWINGS OF SIGNAGE ON STOREFRONT AND COLOR RENDERING OF SIGNAGE.

SPECIALTY SIGNAGE AND GRAPHICS:

SPECIALTY SIGNAGE IS DEFINED AS ANY SIGN THAT DOES NOT MEET THE CURRENT CRITERIA FOR STORE FRONT, SECONDARY OR STREET SIGNAGE. SPECIALTY SIGNAGE PLANS AND/ OR DRAWINGS FOR EACH SIGN MUST BE SUBMITTED TO DOMINO'S PIZZA LLC FOR WRITTEN APPROVAL BEFORE SIGN CONSTRUCTION AND ILLUSTRATION.

SPECIALTY SIGNS MUST BE MANUFACTURED BY AN APPROVED DOMINO'S PIZZA VENDOR UNLESS PRIOR WRITTEN APPROVAL IS GRANTED.

CUSTOMER LOBBY INTERIOR SIGNAGE:

INTERIOR SIGN MUST BE MANUFACTURED BY AN APPROVED DOMINO'S PIZZA VENDOR.

SIGN FOR OTHER THAN DIRECT BUSINESS PURPOSES ARE PROHIBITED.

THE ONLY NEON/ LED SIGNS ALLOWED ARE THOSE APPROVED BY DOMINO'S PIZZA. WINDOW TYPE NEON/ LED SIGNS MAY ONLY BE IN COLORS APPROVED BY DOMINO'S PIZZA.

AN APPROVED "OPEN" SIGN IS REQUIRED AND MUST BE ILLUMINATED FROM OPENING TO CLOSING.

NEON/ LED SIGNS MUST BE PLACED IN THE WINDOW WITH THE BOTTOM OF THE SIGN AT LEAST 60" FROM THE FLOOR. 10-17-00 TELEPHONE & DATA

THE GENERAL CONTRACTOR/ ELECTRICAL SEE PLUMBING SHEETS FOR PLUMBING REQUIREMENTS. SUBCONTRACTOR SHALL INSTALL THE COMPLETE ELECTRICAL AND COMPUTER DATA WIRING SYSTEM WITH IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL FIXTURES IN COMPLIANCE WITH LOCAL JURISDICTION ALL THE NECESSARY RELATED ACCESSORIES FOR A COMPLETE, FUNCTIONING SYSTEM APPROVED BY DOMINO'S CODES, AND REQUIREMENTS. PIZZA AND THE TELEPHONE EQUIPMENT SUPPLIER.

THE CONTRACTOR SHALL OBTAIN, DIRECTLY FROM DOMINO'S PIZZA, ALL INSTALLATION INSTRUCTIONS PERTAINING TO THE DOMINO'S PIZZA COMPUTER/ TELEPHONE SYSTEM: PULSE CABLING SPECS.

THE CONTRACTOR SHALL COORDINATE THE WORK INDICATED ON THE DRAWINGS WITH THE COMPUTER/ TELEPHONE INSTALLATION DIRECTIONS FROM DOMINO'S PIZZA. IF DISCREPANCIES EXIST, THE DOMINO'S PIZZA INSTALLATION DIRECTIONS SHALL TAKE PRECEDENCE.

ALL INSTALLATION CONCEPTS SHALL BE APPROVED BY THE OWNER PRIOR TO INSTALLATION. IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL

FIXTURES IN COMPLIANCE WITH LOCAL JURISDICTION CODES AND REQUIREMENTS.

10-26-00 WALL AND CORNER GUARDS

FULL HEIGHT 2" X 2" STAINLESS STEEL CORNER GUARDS AT ALL EXTERIOR CORNERS. FULL HEIGHT STAINLESS STEEL END CAPS AT ALL WALL ENDS.

10-99-00-2 FIRE EXTINGUISHERS

IN LOBBY

INSTALLED IN KITCHEN.

AND MOUNTED.

ALL FIRE EXTINGUISHERS SHALL REMAIN IN CLEAR VIEW AND SHALL NOT BE OBSTRUCTED AT ANY TIME.

FIRE EXTINGUISHERS SHALL BE INSTALLED NO HIGHER THAN 5' (AT HANDLE) AND NO LESS THAN 4" ABOVE FINISHED FLOOR.

FOOD SERVICE EQUIPMENT AND OTHER ITEMS LISTEN ON THE EQUIPMENT SCHEDULE SHALL BE PROVIDED BY THE OWNER AND INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.

ALL JOINTS IN THE COUNTER SYSTEM AND WHERE FIXED EQUIPMENT MEETS WALL SURFACES SHALL BE SEALED USING A CLEAR, NON-TOXIC SILICONE SEALANT APPLIED TO ち LEAVE A SMOOTH CONCAVE JOINT.

OVEN EXHAUST HOOD:

DOMINO'S PROVIDED EXHAUST HOOD INSTALLED BY GENERAL CONTRACTOR.

12-32-16 MILLWORK AND CABINETRY

THE CONTRACTOR SHALL INSTALL CUSTOM COUNTERS PROVIDED BY DOMINO'S PIZZA, INCLUDING BUT NOT LIMITED TO MODULAR CUSTOMER SERVICE COUNTERS, DOUGH COUNTERS, CUT TABLE, DRIVER'S TABLE, AND DROP BOXES.

PROTECTIVE WOOD CASE FOR TELEPHONE EQUIPMENT BY G.C.: COVER ALL EXPOSED WOOD WITH PURE WHITE PLASTIC LAMINATE. 48" X 48" X 18" DEEP WITH HINGED ACCESS DOORS. PROVIDE VENTILATION HOLES TOP & BOTTOM. MOUNT AS HIGH ON WALL AS POSSIBLE. SEE FLOOR PLAN FOR GENERAL LOCATION OF EQUIPMENT. VERIFY THIS DIMENSION IS SUFFICIENT FOR EQUIPMENT

CUSTOM DESK FOR MANAGER'S OFFICE BY G.C. SEE MANAGER'S OFFICE ELEVATION DRAWINGS.

ALL STORES MUST HAVE APPROVED SEATING IN THE CUSTOMER AREA FOR A MINIMUM OF THREE (3) CARRYOUT CUSTOMERS.

NO FOLDING CHAIRS ARE ALLOWED.

SEE FURNITURE SCHEDULE FOR APPROVED BENCHES, TABLES, AND CHAIRS

26-50-00 LIGHTING

CUSTOMER LOBBY LIGHTING:

AND SCHEDULE.

TRACK LIGHTING IS NOT APPROVED.

ALL OTHER AREAS LIGHTING:

FLUORESCENT OR LED FIXTURES ONLY.

26-00-00 ELECTRICAL

SEE ELECTRICAL SHEETS FOR ELECTRICAL REQUIREMENTS.

IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL FIXTURES IN COMPLIANCE WITH LOCAL JURISDICTION CODES, AND REQUIREMENTS.

MINIMUM 2A10BC FIRE EXTINGUISHERS SHALL BE INSTALLED

MINIMUM CLASS K FIRE EXTINGUISHERS SHALL BE

ALL FIRE EXTINGUISHERS SHALL BE PROPERLY TAGGED

11-40-00 FOOD SERVICE EQUIPMENT & MISCELLANEOUS

12-61-00 CUSTOMER LOBBY TABLES & CHAIRS

APPROVED LIGHTING TO BE DESCRIBED IN LIGHTING PLAN

APPROVED LIGHTING FOR STORAGE AREA, OFFICES AND RESTROOMS ARE SHIELDED, WHITE, RECESSED

22-00-00 PLUMBING

<u>GAS:</u>

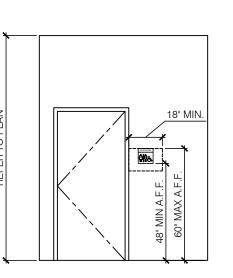
SEE PLUMBING SHEETS FOR GAS REQUIREMENTS.

IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL FIXTURES IN COMPLIANCE WITH LOCAL JURISDICTION CODES, AND REQUIREMENTS.

23-00-00 HEATING, VENTILATION AND AIR CONDITIONING

SEE MECHANICAL SHEETS FOR HVAC REQUIREMENTS.

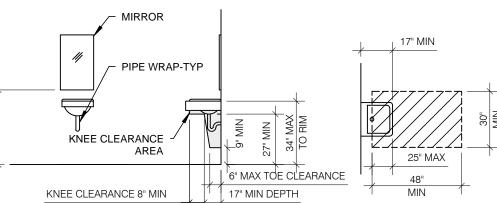
IT IS THE CONTRACTORS RESPONSIBILITY TO INSTALL FIXTURES IN COMPLIANCE WITH LOCAL JURISDICTION CODES, AND REQUIREMENTS



1. PROVIDE SIGNAGE WITH RAISED LETTERING AND BRAILLE SYMBOLS (RAISED 1/32") BETWEEN 5/8"- 2" HIGH LOCATED ON THE WALL ADJACENT TO THE STRIKE EDGE OF THE DOOR @ 60" AFF HAT IDENTIFIES THE RESTROOM.

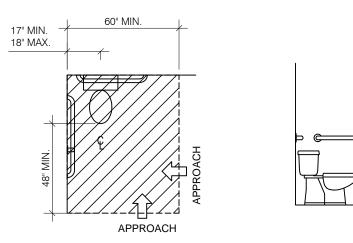
DOOR SIGNAGE ELEVATION

PLUMBING FIXTURES

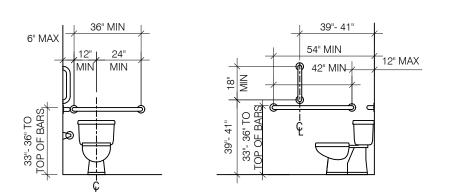


LAVATORY KNEE CLEARANCE AND MIRROR MOUNTING

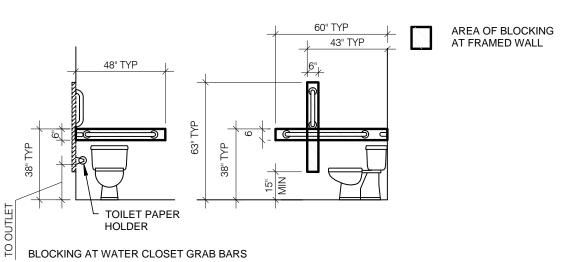
CLEARANCE AT LAVATORIES AND SINKS



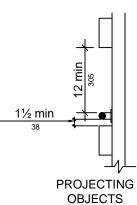
CLEARANCE AT WATER CLOSETS AND HEIGHT



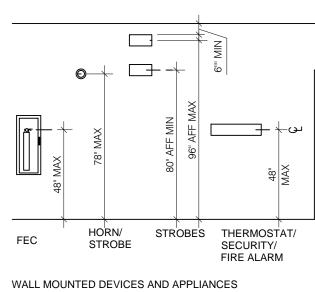
GRAB BARS AT WATER CLOSETS



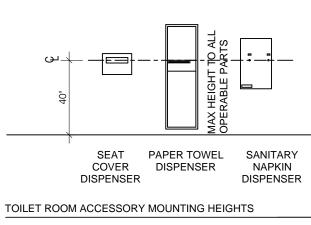
RESTROOM GRAB BAR

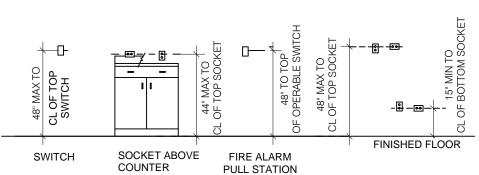


MOUNTING HEIGHTS



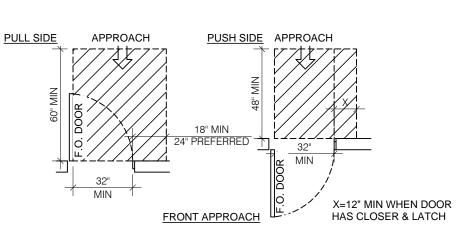
1. WALL MOUNTED DEVICES SHALL NOT EXTEND MORE THAN 4" BEYOND WALL SURFACE WHEN LOCATED BELOW 6'-8"

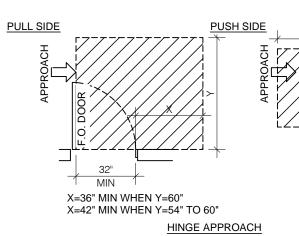


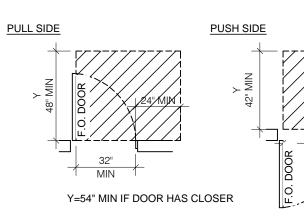




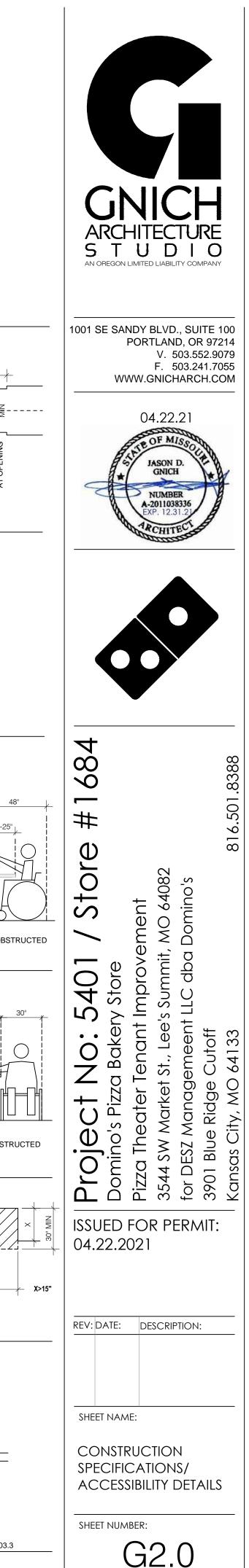
DOORS







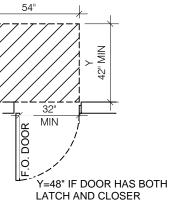
LATCH APPROACH MANEUVERING CLEARANCES AT SWINGING DOORS

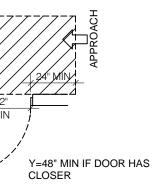


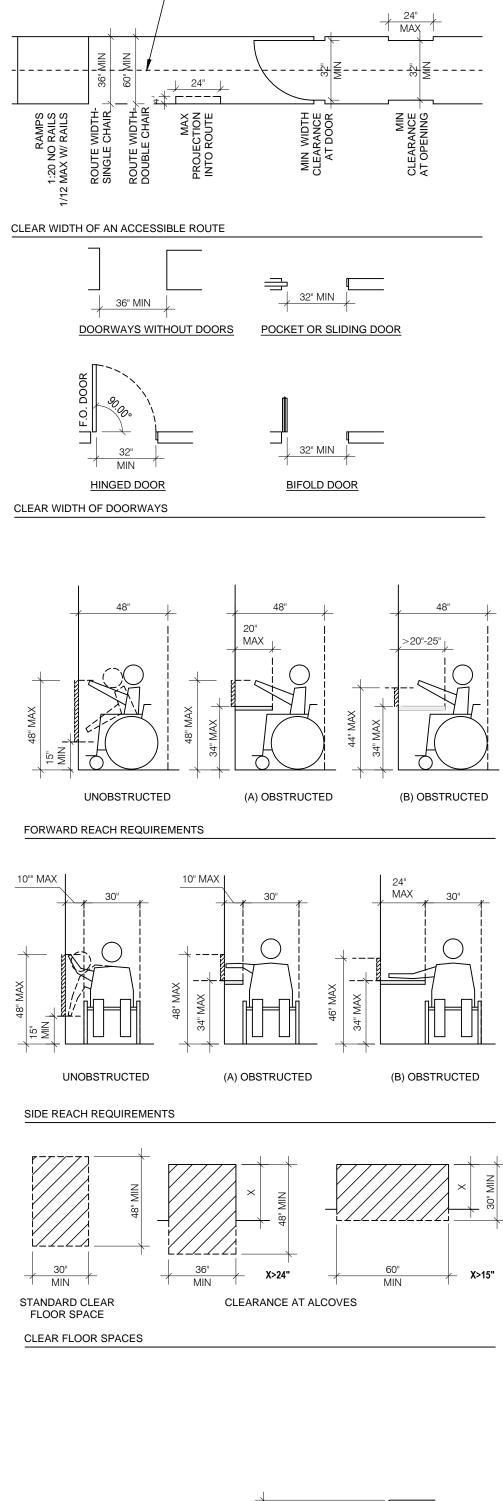
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CEILING 3" MAX PROJECTION ROOM SIGNAGE

CLEARANCES



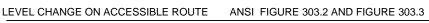




ACCESSIBLE ROUTE INDICATOR LINE



CHANGE IN LEVEL - SQUARE



CHANGE IN LEVEL - SLOPED

CODE ANALYSIS

IBC 2018 AND NFPA 101-2009	EXISTING BUILDING	EXISTING SPACE	PROPOSED SPACE
	EXISTING DUILDING	EXISTING SPACE	FNUFUSED SFACE
IBC 2018 BUILDING USE GROUP CLASSIFICATION(S)	В	В	В
NFPA 101 OCCUPANCY CLASSIFICATION(S)	BUSINESS	BUSINESS	BUSINESS
SEPARATED MIXED USE PER IBC/ NFPA (Y/N)	NO	NO	NO
CONSTRUCTION TYPE PER IBC 2018	II-B	II-B	II-B
NUMBER OF STORIES ABOVE GRADE	1	1	1
HIGH RISE (Y/N)	NO	NO	NO
FIRE ALARM SYSTEM (Y/N)	NO	NO	NO
FULLY SPRINKLED AND MONITORED (Y/N)	YES	YES	YES
TOTAL BUILDING AREA (S.F.)	N/A	1,220 S.F.	1,220 S.F.
FLOOR AREA OF RENOVATION/ TENANT SPACE (S.F.)	N/A	1,220 S.F.	1,220 S.F.

MATERIAL PERFORMANCE

MATERIAL	CLASS	FLAME SPREAD INDEX
CUSTOMER LOBBY CEILING TILE	CLASS A	<25
PRODUCTION AREA CEILING TILE	CLASS A	<25
FLOOR TILE	CLASS A	<25
WALL TILE	CLASS A	<25
WALL PAINT	CLASS A	<5
PLASTIC LAMINATE	CLASS A	<25
FRP PANELS	CLASS A	<25
CORIAN SOLID SURFACE	CLASS A	<25

OCCUPANCY WITHOUT SPRINKLER WITH SPRINKLER							
OCCUPANCY	WITHOUT SPRINKLER SYSTEM (FEET)	WITH SPRINKLER SYSTEM (FEET)					
A, E, F-1, M, R, S-1	200	250					
l-1	NOT PERMITTED	250					
В	200	300					
F-2, S-2, U	300	400					
H-1	NOT PERMITTED	75					
Н-2	NOT PERMITTED	100					
Н-3	NOT PERMITTED	150					
H-4	NOT PERMITTED	175					
Н-5	NOT PERMITTED	200					
I-2, I-3, I-4	NOT PERMITTED	200					

PROJECT STATISTICS:

BUILDING DATA

TOTAL AREA OF DOMINO'S PIZZA TENANT SPACE: 1,220 S.F. GROSS

OCCUPANT LOAD SUMMARY

OCCUPANCY CLASSIFICATION: GROUP B (LESS THAN 50 OCCUPANTS)

IBC SECTION 303.1

EXCEPTION 2. A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES WITH AN OCCUPANT LOAD OF LESS THAN 50 PERSONS AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY OR AS PART OF THAT OCCUPANCY. EXCEPTION 3. A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES THAT IS LESS THAN 750 SQUARE FEET IN AREA AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE CLASSIFIED AS A GROUP B OCCUPANCY OR AS PART OF THAT OCCUPANCY.

LOBBY AREA GROSS AREA = 106 S.F.

LOAD FACTOR @ 1/100 BUSINESS OCCUPANT LOAD = 2

PRODUCTION AREA GROSS AREA = 472 S.F. LOAD FACTOR @ 1/200 KITCHEN, COMMERCIAL OCCUPANT LOAD = 3

STORAGE AREA GROSS AREA = 591 S.F. LOAD FACTOR @ 1/300 ACCESSORY STORAGE OCCUPANT LOAD = 2

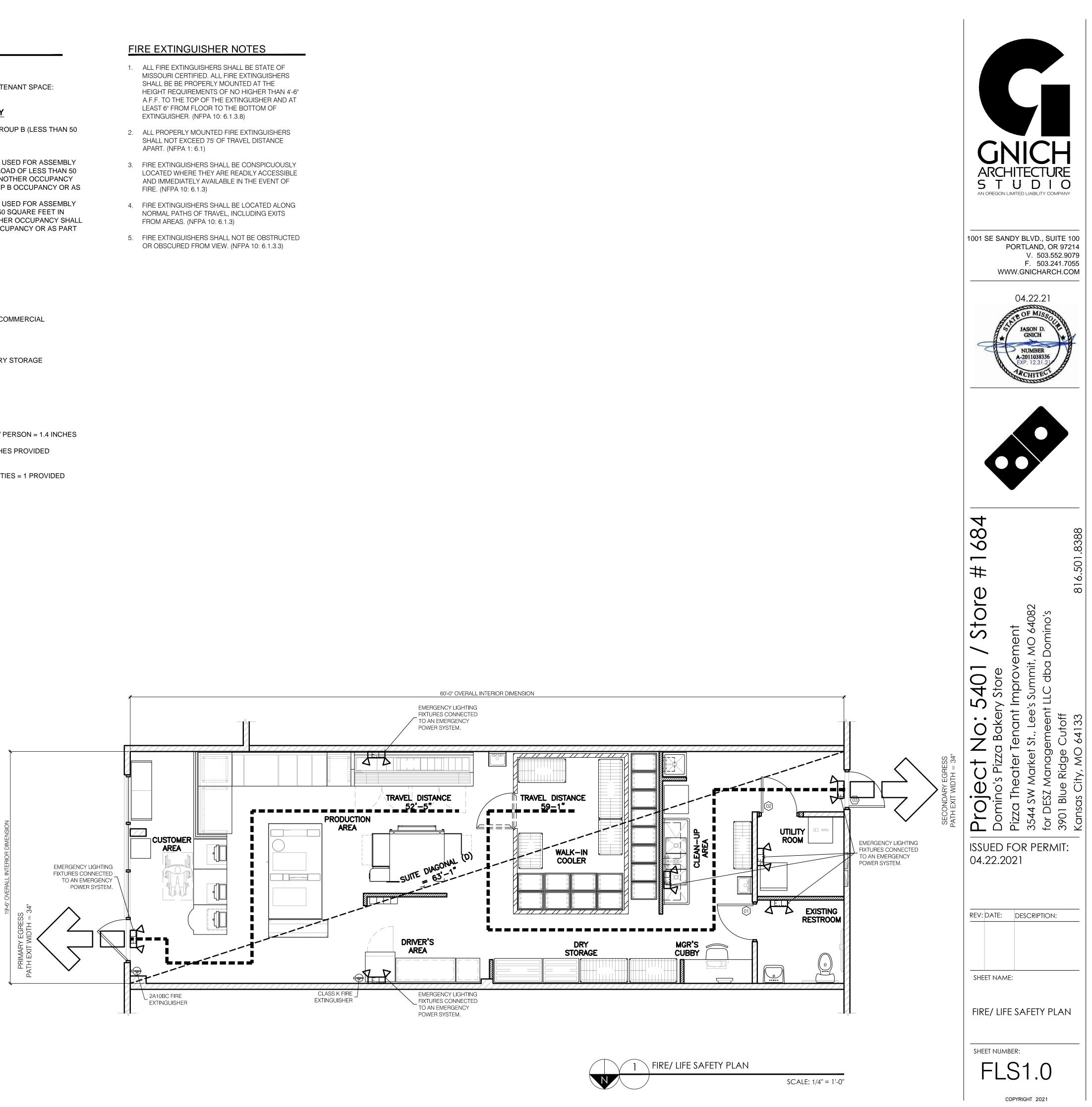
TOTAL OCCUPANT LOAD = 7

EXITS: CUSTOMER AREA = 1 TOTAL EXITS = 2

7 PERSONS IN THIS SPACE X .20" / PERSON = 1.4 INCHES MIN. REQ'D EXIT WIDTH PROVIDED = 73.5 INCHES PROVIDED

TOILETS: TOTAL NUMBER OF TOILET FACILITIES = 1 PROVIDED

- MISSOURI CERTIFIED. ALL FIRE EXTINGUISHERS SHALL BE BE PROPERLY MOUNTED AT THE LEAST 6" FROM FLOOR TO THE BOTTOM OF EXTINGUISHER. (NFPA 10: 6.1.3.8)
- SHALL NOT EXCEED 75' OF TRAVEL DISTANCE APART. (NFPA 1: 6.1)
- AND IMMEDIATELY AVAILABLE IN THE EVENT OF FIRE. (NFPA 10: 6.1.3)
- NORMAL PATHS OF TRAVEL, INCLUDING EXITS
- OR OBSCURED FROM VIEW. (NFPA 10: 6.1.3.3)



		EQUIPMENT SCHEDULE			SCHEDULES ARE NOT INTENDED TO BE ALL INC OWNER IS TO BE ULTIMATELY RESPONSIBLE FO		
ARK QT	TY.	DESCRIPTION / MFGR		PRODUCT CODE	REMARKS	FURN. BY	INST. B
1		1' STAINLESS STEEL DOUGH SPACER W/ LEGS		SEE E&S	4" BACKSPLASH/ LEG ASSEMBLY 22314D		
2 1	1	2' STAINLESS STEEL DOUGH SPACER W/ LEGS		PC 273160	4" BACKSPLASH/ LEG ASSEMBLY 22314D	E&S	GC
	-	3' STAINLESS STEEL DOUGH SPACER W/ LEGS 4' STAINLESS STEEL DOUGH COUNTER W/ LEGS		PC 273161 PC 273162	4" BACKSPLASH/ LEG ASSEMBLY 22314D	E&S	GC
↓ 1 5 ↓	1	5' STAINLESS STEEL DOUGH COUNTER W/ LEGS		PC 273162	4" BACKSPLASH 4" BACKSPLASH	EQS	GC
\leq		6' STAINLESS STELL DOUGH COUNTER W/ LEGS		SEE E&S	4" BACKSPLASH		
\leq		45 DEGREE ROLL TABLE W/ 4" BACKSPLASH		PC 273167	4" BACKSPLASH		
$\frac{1}{3}$	1	UNIVERSAL CORNER STAINLESS STEEL DOUGH COUNTER W	/ LEGS	PC 273165	4" BACKSPLASH	E&S	GC
		4' MAKELINE		SEE E&S			
0 1	1	10'-0" MAKELINE RCP (RIGHT SIDE COMPRESSOR)		SEE E&S		E&S	GC
1 1	1	CORNMEAL CATCHER		PC 273021		E&S	GC
2 1	1	BOFI 3255H DOUBLE STACK CONVEYOR OVEN		SEE E&S	SPLIT BELT DRIVE ONE OVEN	E&S	GC
3 1	1	AVI CAP EXHAUST HOOD FOR BOFI 3255		SEE E&S	S.S. VALANCE BY E&S OR OPTIONALLY BY G.C	. E&S	GC
4		PULSE TELEPHONE EQUIPMENT BOX W/ HINGED ACCESS DO	ORS		PWD W/ WHITE P. LAM		
5 2	2	MENU BOARD - 37"-55" MONITOR 1080p & HDMI COMPATIBLE		SEE POMEROY	RECOMMEND LG 43SE3B OR LG 49SE3B	POMEROY	GC
6 1	1	PIZZA TRACKER - 37"-55" MONITOR 1080p & HDMI COMPATIBL	E	SEE POMEROY	WITH HP T620 THIN CLIENT	POMEROY	GC
'a) 2	2	PULSE TELEPHONE / 22" ORDER STATION - WALL MOUNTED		SEE PULSE	WALL MOUNTED	PULSE	GC
'b) 1	1	PULSE TELEPHONE/ 22" DRIVER DISPATCH/ CUT STATION - WAI	L MOUNTED	SEE PULSE	ADDL. DATA FOR PRINTER	PULSE	GC
	3	PULSE TELEPHONE / 22" ORDER STATION - POS COUNTER		SEE PULSE	POS COUNTER/ADDL. DATA FOR PRINTER	PULSE	GC
d 3	3	DOUGH / 22" MAKELINE MONITOR - POLE MOUNTED ABOVE		SEE PULSE		PULSE	GC
e		COUNTER MOUNTED KIOSK		SEE PULSE	MOUNTING BASE		
7f		TEAM MEMBER NOTIFICATION (TMN) SYSTEM		SEE PULSE	MOUNTING ARM, IF NEXT TO POS TERM.		
3) 1	1	CALIFORNIA SAFE WITH DIGITAL LOCK/TIME DELAY		PC 381811	20" TALL DUE TO ELEC. & CASH DRAWER	E&S	GC
	2	METAL CASH DRAWER W/ REMOVABLE TILL		PC 312661	MTL. BRACKET KIT REQ'D PC 284008	E&S	GC
	1	30" SINGLE DOOR VISI-COOLER		SEE COKE		COKE	GC
		54" DOUBLE DOOR VISI-COOLER		SEE COKE			
\geq		COKE COOLER GDM15-RETR (RETRO COKE COOLER)		SEE COKE			
3 1	1	8' CUTTING EDGE CUT TABLE		SEE E&S		E&S	GC
4 1	1	60" ROUTE STAND W/ (3) 54" HEAT LAMPS (PC320815)		PC 320810		E&S	GC
\sum		2' DRIVERS TABLE		PC 22141D			
		3' DRIVERS TABLE		PC 22140D			
	1	10 x 14' NOMINAL KOLPAK WALK-IN COOLER BOX W/OUT FLF		SEE E&S		E&S	GC
2		WHIRLPOOL ALL-IN-ONE WASHER/DRYER		BY G.C.	WETLV27H		
<u> </u>	1	FULL SIZE WASHER		BY OWNER	STACKABLE	OWNER	GC
$\sum 1$	1	FULL SIZE DRYER		BY OWNER	STACKABLE	OWNER	GC
	1	STAINLESS STEEL 3-COMPARTMENT SINK		PC 28102		E&S	GC
3	3	3-COMP. SINK, WASTE LEVER		PC 383050		E&S	GC
1		3-COMP. SINK, ECONOMY SPRAYER W/ ADD-ON FAUCET		PC 383011		E&S	GC
_ 1		3-COMP. SINK, WALL BRACKET FOR ECONOMY SPRAYER		PC 28108		E&S	GC
$\leq -$	2	COMPLETE 3-COMP. SINK WALL STORAGE SYSTEM		PC 411956		E&S	GC
3) 2	2	STAINLESS STEEL HANDSINK W/ KNEE PEDAL AND BACKSPLA	SH	SEE E&S	W/ SPLASH GUARDS, BOTH SIDES	E&S	GC
	2	LIQUID SOAP DISPENSER		PC 244006		E&S	GC
	2	HAND SANITIZER DISPENSER		SEE E&S		E&S	GC
	2	PAPER TOWEL DISPENSER		SEE E&S		E&S	GC
\leftarrow	2	TRASH CAN W/ LID		PC 7030, PC7031		E&S	GC
4	1	MOLDED STONE MOP SINK		PC 28096		E&S	GC
5 1	1	WATER HEATER		SEE PLUMBING		GC	GC
				PC 326031			
7		5' STAINLESS WORK TABLE 18" x 36" OLYMPIC SHELVING		PC 22289 PC 411960	BRUSHED NICKEL IF IN CUSTOMER VIEW		
8 <u>9</u> 1	4	18" x 48" OLYMPIC SHELVING		PC 411960	BRUSHED NICKEL IF IN CUSTOMER VIEW	E&S	GC
	1	18" x 60" OLYMPIC SHELVING		PC 411961	BRUSHED NICKEL IF IN CUSTOMER VIEW		
	1	24" X 60" METRO DRIVER'S SHELVING W/ (3) WIRE SHELVES (1) SI		SEE E&S	SOLID SHELF TO BE S.S. SURFACE	E&S	GC
		24" x 24" OLYMPIC SHELVING		PC 411964	BRUSHED NICKEL IF IN CUSTOMER VIEW	E&S	GC
$\leq -$	2	24" x 36" OLYMPIC SHELVING		PC 411965	BRUSHED NICKEL IF IN CUSTOMER VIEW	E&S	GC
$\leq \vdash$	3	24" x 48" OLYMPIC SHELVING		PC 411966	BRUSHED NICKEL IF IN CUSTOMER VIEW	E&S	GC
5 1	-	24" x 60" OLYMPIC SHELVING		PC 411960	BRUSHED NICKEL IF IN CUSTOMER VIEW	E&S	GC
\leq		20" x 36" HEAVY DUTY DUNNAGE BACK		PC 462452			
7		20" x 48" HEAVY DUTY DUNNAGE RACK		PC 462453			
	1	24" x 36" HEAVY DUTY DUNNAGE RACK		PC 462450		E&S	GC
5	1	24" x 48" HEAVY DUTY DUNNAGE RACK		PC 462451		E&S	GC
		16 COMPARTMENT LOCKER		SEE OWNER			
1 1	1	BUILT-IN MANAGER'S DESK (WITH A.D.A. KNEE CLEARANCE)				GC	GC
$\leq -$	4	MODULAR METAL DROP BOX		PC 8610A	(4) BAYS TO BE ATTACHED TOGETHER	E&S	GC
$\overline{\mathbf{S}}$		COKE FOUNTAIN BEVERAGE DISPENSER W/ ICE MACHINE AB	OVE	SEE COKE			
	E&\$		JPPLY	PULSE	ECT. = DOMINO'S PIZZA POINT OF SAI		
	(COUNTER CABINET/ SOFFIT SC			OWNER IS TO BE ULTIMATELY RESPONSIBLE FO	R ALL ORDER	RS.
			PRODUC PC 273310			FURN. BY E&S	INST. B GC
		TRANSACTION COUNTER (33.5" DEEP)	1 PL	,			
.01 1		TRANSACTION COUNTER (33.5" DEEP) 18" POS FILLER CABINET (33.5" DEEP)	PC 273310 PC 273306	5			1
.01 1		· · · ·	PC 273306				
01 1 02 03		18" POS FILLER CABINET (33.5" DEEP)		7		E&S	GC
01 1 02 03 04 1		18" POS FILLER CABINET (33.5" DEEP)24" POS FILLER CABINET (33.5" DEEP)	PC 273306 PC 273307	7		E&S E&S	GC GC
01 1 02 03 04 1 05 1		18" POS FILLER CABINET (33.5" DEEP)24" POS FILLER CABINET (33.5" DEEP)30" POS FILLER CABINET (33.5" DEEP)	PC 273306 PC 273307 PC 273308	7 3 9			
01 1 02 03 04 1 05 1 06		18" POS FILLER CABINET (33.5" DEEP)24" POS FILLER CABINET (33.5" DEEP)30" POS FILLER CABINET (33.5" DEEP)36" POS FILLER CABINET (33.5" DEEP)	PC 273306 PC 273307 PC 273308 PC 273308	7 3 9			
01 1 02 03 04 1 05 1 06 07		18" POS FILLER CABINET (33.5" DEEP)24" POS FILLER CABINET (33.5" DEEP)30" POS FILLER CABINET (33.5" DEEP)36" POS FILLER CABINET (33.5" DEEP)WEDGE CABINET (33.5" DEEP)	PC 273306 PC 273307 PC 273308 PC 273308 PC 273309 PC 273309 PC 273311	7 3 9 1 2	4" BACKSPLASH		
		18" POS FILLER CABINET (33.5" DEEP)24" POS FILLER CABINET (33.5" DEEP)30" POS FILLER CABINET (33.5" DEEP)36" POS FILLER CABINET (33.5" DEEP)WEDGE CABINET (33.5" DEEP)HOT HOLD CABINET BASE	PC 273306 PC 273307 PC 273308 PC 273308 PC 273309 PC 273309 PC 273309 PC 273311 PC 273312	7 3 9 1 2 0	4" BACKSPLASH	E&S	GC
	TY. 1 1 1 1 1	18" POS FILLER CABINET (33.5" DEEP) 24" POS FILLER CABINET (33.5" DEEP) 30" POS FILLER CABINET (33.5" DEEP) 36" POS FILLER CABINET (33.5" DEEP) WEDGE CABINET (33.5" DEEP) HOT HOLD CABINET BASE 8' STAINLESS DOUGH TABLE - PIZZA THEATER	PC 273306 PC 273307 PC 273308 PC 273308 PC 273309 PC 273311 PC 273312 PC 273100	7 3 9 1 2 2 0 7	4" BACKSPLASH W/ OVERSHELF (PC 273128)	E&S E&S E&S	GC GC
	TY. 1 1 1 1 1	18" POS FILLER CABINET (33.5" DEEP) 24" POS FILLER CABINET (33.5" DEEP) 30" POS FILLER CABINET (33.5" DEEP) 36" POS FILLER CABINET (33.5" DEEP) WEDGE CABINET (33.5" DEEP) HOT HOLD CABINET BASE 8' STAINLESS DOUGH TABLE - PIZZA THEATER POS MOUNTS	PC 273300 PC 273307 PC 273308 PC 273308 PC 273308 PC 273309 PC 273309 PC 273309 PC 273312 PC 273100 PC 284007	7 3 3 9 1 2 2 0 7 7 7		E&S E&S E&S	GC GC GC
	TY. 1 1 1 1 1	18" POS FILLER CABINET (33.5" DEEP) 24" POS FILLER CABINET (33.5" DEEP) 30" POS FILLER CABINET (33.5" DEEP) 36" POS FILLER CABINET (33.5" DEEP) WEDGE CABINET (33.5" DEEP) HOT HOLD CABINET BASE 8' STAINLESS DOUGH TABLE - PIZZA THEATER POS MOUNTS 7' CUT TABLE - PIZZA THEATER	PC 273306 PC 273307 PC 273307 PC 273308 PC 273309 PC 273311 PC 273312 PC 273100 PC 284000 PC 273117 PC 273113	7 3 3 9 1 2 2 0 7 7 7	W/ OVERSHELF (PC 273128)	E&S E&S E&S	GC GC GC
	TY. 1 1 1 1 1	18" POS FILLER CABINET (33.5" DEEP) 24" POS FILLER CABINET (33.5" DEEP) 30" POS FILLER CABINET (33.5" DEEP) 36" POS FILLER CABINET (33.5" DEEP) WEDGE CABINET (33.5" DEEP) HOT HOLD CABINET BASE 8' STAINLESS DOUGH TABLE - PIZZA THEATER POS MOUNTS 7' CUT TABLE - PIZZA THEATER SOLID STAINLESS BOX SHELF - 3 REQ.	PC 273306 PC 273307 PC 273307 PC 273308 PC 273309 PC 273311 PC 273312 PC 273100 PC 284000 PC 273117 PC 273113	7 3 3 9 1 2 2 0 7 7 7 7 7 9	W/ OVERSHELF (PC 273128) W/ (4) 54" ERECTA POSTS (PC 273166)	E&S E&S E&S	GC GC GC
	TY. 1 1 1 1 1	18" POS FILLER CABINET (33.5" DEEP) 24" POS FILLER CABINET (33.5" DEEP) 30" POS FILLER CABINET (33.5" DEEP) 36" POS FILLER CABINET (33.5" DEEP) WEDGE CABINET (33.5" DEEP) HOT HOLD CABINET BASE 8' STAINLESS DOUGH TABLE - PIZZA THEATER POS MOUNTS 7' CUT TABLE - PIZZA THEATER SOLID STAINLESS BOX SHELF - 3 REQ. BEVERAGE COUNTER	PC 273300 PC 273307 PC 273308 PC 273309 PC 273309 PC 273312 PC 273312 PC 273100 PC 273100 PC 273110 PC 273111 PC 273112 PC 273113 PC 284043	7 3 3 9 1 2 2 0 7 7 7 7 7 9	W/ OVERSHELF (PC 273128) W/ (4) 54" ERECTA POSTS (PC 273166)	E&S E&S E&S	GC GC GC
	TY. 1 1 1 1 1	18" POS FILLER CABINET (33.5" DEEP) 24" POS FILLER CABINET (33.5" DEEP) 30" POS FILLER CABINET (33.5" DEEP) 36" POS FILLER CABINET (33.5" DEEP) WEDGE CABINET (33.5" DEEP) HOT HOLD CABINET BASE 8' STAINLESS DOUGH TABLE - PIZZA THEATER POS MOUNTS 7' CUT TABLE - PIZZA THEATER SOLID STAINLESS BOX SHELF - 3 REQ. BEVERAGE COUNTER BEVERAGE COUNTER TOP ORGANIZER	PC 273306 PC 273307 PC 273312 PC 273100 PC 273100 PC 273101 PC 273117 PC 273119 PC 284043 SEE E&S	7 3 3 9 1 2 2 0 7 7 7 7 9 3/ PC 284042	W/ OVERSHELF (PC 273128) W/ (4) 54" ERECTA POSTS (PC 273166)	E&S E&S E&S	GC GC
	TY. 1 1 1 1 1 3 	18" POS FILLER CABINET (33.5" DEEP) 24" POS FILLER CABINET (33.5" DEEP) 30" POS FILLER CABINET (33.5" DEEP) 36" POS FILLER CABINET (33.5" DEEP) WEDGE CABINET (33.5" DEEP) HOT HOLD CABINET BASE 8' STAINLESS DOUGH TABLE - PIZZA THEATER POS MOUNTS 7' CUT TABLE - PIZZA THEATER SOLID STAINLESS BOX SHELF - 3 REQ. BEVERAGE COUNTER BEVERAGE COUNTER TOP ORGANIZER AMENITIES STATION	PC 273300 PC 273307 PC 273309 PC 273309 PC 273309 PC 273309 PC 273309 PC 273311 PC 273100 PC 273110 PC 273111 PC 273112 PC 273113 PC 284043 SEE E&S SEE E&S PC 284300	7 3 3 9 1 2 2 0 7 7 7 7 9 3 8/ PC 284042	W/ OVERSHELF (PC 273128) W/ (4) 54" ERECTA POSTS (PC 273166) TRASH ON RIGHT/ TRASH ON LEFT	E&S E&S E&S E&S	GC GC GC
	TY. 1 1 1 1 1 3 2	18" POS FILLER CABINET (33.5" DEEP) 24" POS FILLER CABINET (33.5" DEEP) 30" POS FILLER CABINET (33.5" DEEP) 36" POS FILLER CABINET (33.5" DEEP) WEDGE CABINET (33.5" DEEP) HOT HOLD CABINET BASE 8' STAINLESS DOUGH TABLE - PIZZA THEATER POS MOUNTS 7' CUT TABLE - PIZZA THEATER SOLID STAINLESS BOX SHELF - 3 REQ. BEVERAGE COUNTER BEVERAGE COUNTER TOP ORGANIZER AMENITIES STATION SNEEZE GUARD POLE END (INDIVIDUAL)	PC 273306 PC 273307 PC 273307 PC 273308 PC 273309 PC 273309 PC 273312 PC 273110 PC 273110 PC 273110 PC 273111 PC 273112 PC 273113 PC 273114 PC 284043 SEE E&S SEE E&S	7 3 3 9 1 2 2 0 7 7 7 7 7 9 3/ PC 284042 3/ PC 284042 0 1	W/ OVERSHELF (PC 273128) W/ (4) 54" ERECTA POSTS (PC 273166) TRASH ON RIGHT/ TRASH ON LEFT G.C. TO PROVIDE GLASS	E&S E&S E&S E&S E&S E&S E&S	GC GC GC GC GC GC
	TY. 1 1 1 1 1 3 2	18" POS FILLER CABINET (33.5" DEEP) 24" POS FILLER CABINET (33.5" DEEP) 30" POS FILLER CABINET (33.5" DEEP) 36" POS FILLER CABINET (33.5" DEEP) WEDGE CABINET (33.5" DEEP) HOT HOLD CABINET BASE 8' STAINLESS DOUGH TABLE - PIZZA THEATER POS MOUNTS 7' CUT TABLE - PIZZA THEATER SOLID STAINLESS BOX SHELF - 3 REQ. BEVERAGE COUNTER BEVERAGE COUNTER TOP ORGANIZER AMENITIES STATION SNEEZE GUARD POLE END (INDIVIDUAL) SNEEZE GUARD POLE CENTER/CORNER (INDIVIDUAL)	PC 273306 PC 273307 PC 273307 PC 273308 PC 273302 PC 273302 PC 273302 PC 273302 PC 273312 PC 273100 PC 273100 PC 273100 PC 273101 PC 273117 PC 273118 PC 284043 SEE E&S SEE E&S PC 284300 PC 284300	7 3 3 9 1 2 2 0 7 7 7 7 9 3/ PC 284042 3/ PC 284042 0 1 1 AA-15 060	W/ OVERSHELF (PC 273128) W/ (4) 54" ERECTA POSTS (PC 273166) TRASH ON RIGHT/ TRASH ON LEFT G.C. TO PROVIDE GLASS G.C. TO PROVIDE GLASS	E&S E&S E&S E&S E&S E&S E&S	GC GC GC GC GC GC
	TY. 1 1 1 1 1 3 2	18" POS FILLER CABINET (33.5" DEEP) 24" POS FILLER CABINET (33.5" DEEP) 30" POS FILLER CABINET (33.5" DEEP) 36" POS FILLER CABINET (33.5" DEEP) WEDGE CABINET (33.5" DEEP) HOT HOLD CABINET BASE 8' STAINLESS DOUGH TABLE - PIZZA THEATER POS MOUNTS 7' CUT TABLE - PIZZA THEATER SOLID STAINLESS BOX SHELF - 3 REQ. BEVERAGE COUNTER BEVERAGE COUNTER TOP ORGANIZER AMENITIES STATION SNEEZE GUARD POLE END (INDIVIDUAL) SNEEZE GUARD POLE CENTER/CORNER (INDIVIDUAL) 45° PREFAB MODULAR SOFFIT	PC 273306 PC 273307 PC 273312 PC 273100 PC 273100 PC 273112 PC 273113 PC 273114 PC 284043 SEE E&S SEE E&S PC 284300 PC 284300 PC 284300 PC 284300	7 3 3 9 1 2 2 0 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	W/ OVERSHELF (PC 273128) W/ (4) 54" ERECTA POSTS (PC 273166) TRASH ON RIGHT/ TRASH ON LEFT G.C. TO PROVIDE GLASS G.C. TO PROVIDE GLASS PRE-FABRICATED SOFFIT OPTIONAL:	E&S E&S E&S E&S E&S E&S E&S	GC GC GC GC GC GC
	TY. 1 1 1 1 1 3 2	18" POS FILLER CABINET (33.5" DEEP) 24" POS FILLER CABINET (33.5" DEEP) 30" POS FILLER CABINET (33.5" DEEP) 36" POS FILLER CABINET (33.5" DEEP) WEDGE CABINET (33.5" DEEP) HOT HOLD CABINET BASE 8' STAINLESS DOUGH TABLE - PIZZA THEATER POS MOUNTS 7' CUT TABLE - PIZZA THEATER SOLID STAINLESS BOX SHELF - 3 REQ. BEVERAGE COUNTER BEVERAGE COUNTER TOP ORGANIZER AMENITIES STATION SNEEZE GUARD POLE END (INDIVIDUAL) SNEEZE GUARD POLE CENTER/CORNER (INDIVIDUAL) 45° PREFAB MODULAR SOFFIT 48" x 24" x 8" PREFAB MODULAR SOFFIT	PC 273300 PC 273307 PC 273309 PC 273309 PC 273309 PC 273309 PC 273309 PC 273312 PC 273100 PC 273110 PC 273112 PC 273113 PC 284003 SEE E&S SEE E&S PC 284300 PC 284300 PC 284300 PC 284300 PC 284300 PC 200M A PC DOM A	7 3 9 1 2 2 2 7 7 7 9 3/ PC 284042 3/ PC 284042 0 1 4A-15 060 4A-15 010 4A-15 020	W/ OVERSHELF (PC 273128) W/ (4) 54" ERECTA POSTS (PC 273166) TRASH ON RIGHT/ TRASH ON LEFT G.C. TO PROVIDE GLASS G.C. TO PROVIDE GLASS PRE-FABRICATED SOFFIT OPTIONAL:	E&S E&S E&S E&S E&S E&S E&S	GC GC GC GC GC GC

NOTE: ONLY ITEMS WITH QUANTITY LISTED ARE APPLICABLE TO THIS PROJECT. NOTE: SOFFIT LAYOUT/ACCESSORIES FOR DESIGN INTENT ONLY. FINAL EQUIPMENT ORDER TO BE BASED ON MANUFACTURER'S SPECIFICATIONS.

SEE E&S

PC DOM AA-15 040

PC DOM AA-15 050

SUPPORT FOR CORIAN WAITING LEDGE

		FURNITURE SCHEDULE		*SCHEDULES ARE NOT INTENDED TO BE ALL OWNER IS TO BE ULTIMATELY RESPONSIBLE F		
MARK	QTY.	DESCRIPTION / MFGR	PRODUCT CODE	REMARKS	FURN. BY	INST. BY
FN-01		DINING CHAIR (18" SEAT HEIGHT)	PC 318080	DINING ROOM		
FN-02		COUNTER STOOL (25" SEAT HEIGHT)	PC 318081	WAITING LEDGE		
FN-04		DINING TABLE TOP AND 1 BASE: 36" x 24"	PC 284015/284016	DINING ROOM		
FN-05		DINING TABLE TOP AND 2 BASES: 36" x 48"	PC 284017/284018	DINING ROOM		
FN-06	1	BENCH - 3 SEAT	PC 284014	WAITING AREA (60" LONG)	E&S	GC
FN-07		BENCH - 3 SEAT- SECURITY STORE	SEE E&S	SECURITY STORE (61.25" LONG)		
FN-08	1	INTERIOR TRASH CAN - 36 GALLON 20" X 20" X40"	PC 273030/273031	BASE AND TOP/ TOP ONLY FITS (E) BASE	E&S	GC
FN-11		48" SINGLE BOOTH SECTION	PC 284011	INTERIOR SEATING AREA		
FN-12		WALL BOOTH SEATING (SEE PLAN FOR LENGTHS)	PC 284013	INTERIOR SEATING AREA		
FN-13		48" DOUBLE BOOTH SEATING	PC 284012	INTERIOR SEATING AREA		
FN-14		EXTERIOR TRASH CAN - 55 GALLON	PC 273016	EXTERIOR DINING AREA		
FN-15		30" ROUND OUTDOOR TABLE WITH BASE: SEATS 2	PC 318070/318071	EXTERIOR DINING AREA		
FN-16		36" SQUARE OUTDOOR TABLE WITH BASE: SEATS 4	PC 318072/318073	EXTERIOR DINING AREA		
FN-18		7' RED OUTDOOR TABLE UMBRELLA W/ BASE: ADD SMALL LOGO	PC 318043/318044	EXTERIOR DINING AREA		
FN-19		OUTDOOR PLATINUM CHAIR	PC 318074	EXTERIOR DINING AREA		
FN-20		CHILD STEP	PC 273300	24W x 18D x 12H		
FN-21)		HAND RAIL	PC 273301			

NOTE: ONLY ITEMS WITH QUANTITY LISTED ARE APPLICABLE TO THIS PROJECT.

48" x 60" x 8" PREFAB MODULAR SOFFIT

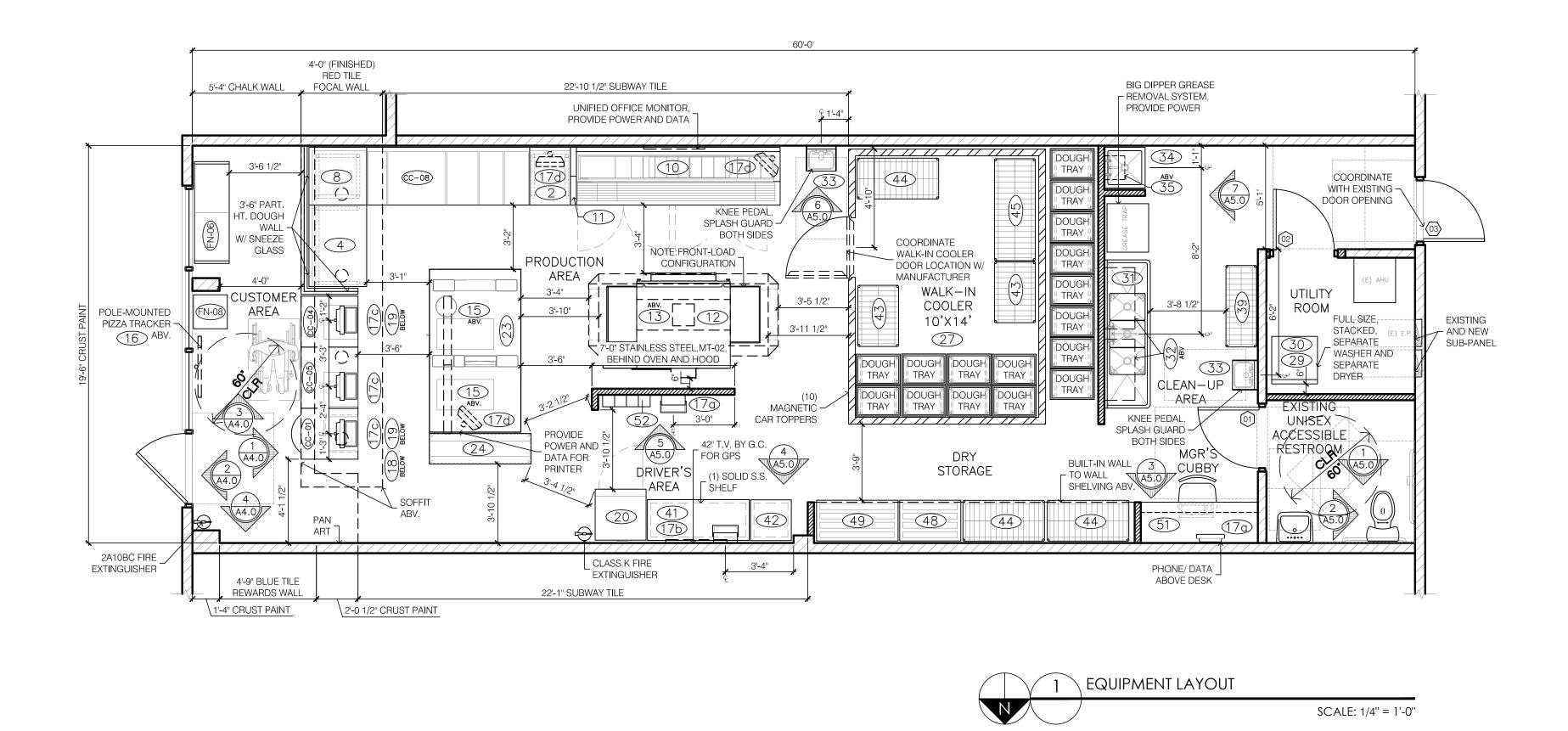
48" x 96" x 8" PREFAB MODULAR SOFFIT

CORIAN LEDGE SUPPORT COLUMN

(CC-21)

CC-22 CC-23

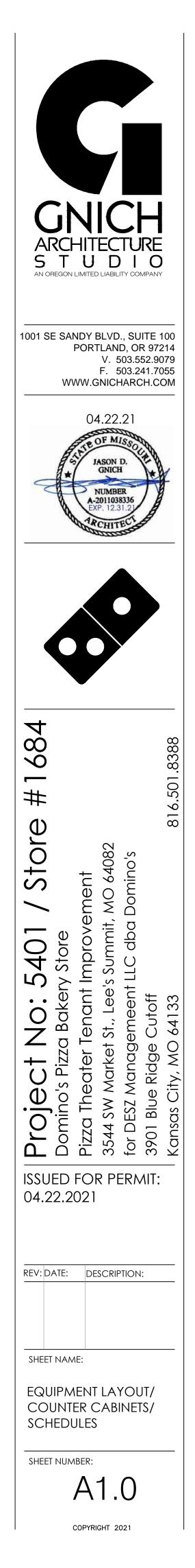
	Domino's Pizza - Cash Wrap Specifications									
FIX TURES										
Domino's P/N	273306	273307	373308	273309	273310	273311	273312	284007	284008	
MFG P/N	J701718K615	J701724K615	J701730K615	J701736K615	J7016K615	J7018K615	J7019K615	J6274K300	J6067K615	
Description	18" POS CABINET	24" POS CABINET	30" POS CABINET	36" POS CABINET	TRANSACTION STATION	FILLER WEDGE	HOT HOLD CABINET	POS MOUNT	CASH DRAWER MOUNTING BRACKET	
Product (H x W x D)	34" x 18" x 33 ½"	34" x 24" x 33 ½"	34" x 30" x 33 ½"	34" x 36" x 33 ½"	34" x 30" x 39-3/16"	34" x 27.5" x 33 ½"	24" x 36" x 33 ¼"	12"-H	*accommodates M-S Cash Drawer (mfg# HP-123N)	
Shipping (H x W x D)	40" x 25" x 52"	40" x 25" x 52"	40" x 40" x 48"	40" x 40" x 48"	40" x 40" x 48"	40" x 25" x 52"	40" x 40" x 48"	4" x 4" x 15"	7" x 17" x 19"	
S Product (lbs.)	110 lbs.	130 lbs.	155 lbs.	175 lbs.	185 lbs.	80 lbs.	150 lbs.	5.5 lbs.	7.5 lbs.	
Shipping (Ibs.)	130 lbs.	150 lbs.	180 lbs.	200 lbs.	210 lbs.	100 lbs.	175 lbs.	6 lbs.	8 lbs.	
Cabinet Material	18-ga. Steel Sheet	18-ga. Steel Sheet	18-ga. Steel Sheet	18-ga. Steel Sheet	18-ga. Steel Sheet	18-ga. Steel Sheet	18-ga. Steel Sheet	18-ga. Steel Tube	18-ga. Steel Sheet	
Cabinet Finish	Powder Coat	Powder Coat	Powder Coat	Powder Coat	Powder Coat	Powder Coat	Powder Coat	E-Coat	Powder Coat	
Cabinet Color	Stardust Silver	Stardust Silver	Stardust Silver	Stardust Silver	Stardust Silver	Stardust Silver	Stardust Silver	Black	Stardust Silver	
Countertop Material	½" Corian™ solid surface & ½" MDF substrate	½" Corian™ solid surface & ½" MDF substrate	½" Corian™ solid surface & ½" MDF substrate	1⁄2" Corian™ solid surface & 1⁄2" MDF substrate	1⁄2" Corian™ solid surface & 1⁄2" MDF substrate	½" Corian™ solid surface & ½" MDF substrate	½" Corian™ solid surface & ½" MDF substrate	N/A	N/A	
Countertop Finish	Matte	Matte	Matte	Matte	Matte	Matte	Matte	N/A	N/A	
Countertop Color	Cottage Lane	Cottage Lane	Cottage Lane	Cottage Lane	Cottage Lane	Cottage Lane	Cottage Lane	N/A	N/A	
# Clean Outlets	0	0	0	0	0	0	0	N/A	N/A	
# Dirty Outlets	4	4	4	6	8	0	4	N/A	N/A	
# Blank/Data Outlets	0 - data/telephony channels provided	0 - data/telephony channels provided	0 - data/telephony channels provided	0 - data/telephony channels provided	0 - data/telephony channels provided	0 - data/telephony channels provided	0 - data/telephony channels provided	N/A	N/A	
Modular Connectors	5-ft Reloc© Quick Connect	5-ft Reloc© Quick Connect	5-ft Reloc© Quick Connect	5-ft Reloc© Quick Connect	5-ft Reloc© Quick Connect	Reloc [©] Cable Extenders	Reloc [©] Cable Extenders	N/A	N/A	
Hard Wiring	N/A	N/A	N/A	N/A	N/A - 20-ampre plug w/ junction box kit* *packaged separately	N/A	N/A	N/A	N/A	
Removable Front Access Panel	panel	Yes Spring clip must first be dis-engaged from employee side before removing panel				No	Yes Spring clip must first be dis-engaged from employee side before removing panel	N/A	N/A	
Removable Rear Kick for ≤21"W Floor Safe	No	No	Yes	Yes	Yes	No	No	N/A	N/A	
for <21"W Floor Safe Adjustable Shelving (1/2" increments)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	N/A	N/A	
VESA Mount Standard		N/A	N/A	N/A	N/A	N/A	N/A	75mm x 75mm only	N/A	
Warranty	(1) One Year *upon delivery for materials & workmanship	(1) One Year*upon delivery for materials & workmanship	(1) One Year *upon delivery for materials & workmanship	(1) One Year *upon delivery for materials & workmanship	(1) One Year *upon delivery for materials & workmanship	(1) One Year *upon delivery for materials & workmanship	(1) One Year*upon delivery for materials & workmanship	(1) One Year*upon delivery for materials & workmanship	(1) One Year*upon delivery for materials & workmanship	





GENERAL NOTES

- 1. THIS DRAWING IS FOR EQUIPMENT LAYOUT PURPOSES ONLY. PLEASE SEE PARTITION AND FINISH PLAN FOR FULLY DIMENSIONED PARTITION LOCATIONS AND ASSEMBLIES.
- 2. G.C. TO VERIFY ALL DIMENSIONS IN THE FIELD BEFORE COMMENCING CONSTRUCTION.
- 3. ALL DIMENSIONS OF NEW WALLS TO FACE OF STUD UNLESS OTHERWISE NOTED.



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			MASTER MA	ATERIAL S	CHEDULE	Ē	
MARK	MATERIAL	MANUFACTURER	MODEL #	COLOR	FINISH	COMMENT	CONTACT
CT-01	2' x 2' SCRUBBABLE CEILING TILE	USG CEILINGS	CLIMAPLUS SHEETROCK CEILING PANEL #3260 SQUARE EDGE	WHITE	VINYL	PRODUCTION AREA, BOH, DURABLE, SMOOTH, NON-ABSORBENT, EASILY	Chris Benjamin, cbenjamin@usg.com 312,436,5458
CT-02	OPEN CEILING	BY G.C.	SEE PT-06 OR PT-07 FOR PAINT SPECS	PT-06 OR PT-07	PAINT	CLEANABLE SEE PT-06 OR PT-07 FOR PAINT SPECS	
CT-03	2' x 2' x 3/4" ACOUSTICAL CEILING TILE	USG CEILINGS	FROST CLIMAPLUS CEILING PANEL #414 EDGE GRID PROFILE DONN-DX, COLOR MATCH 565 SIENNA	565 SIENNA	ACOUSTICAL	FRONT OF HOUSE	Chris Benjamin, cbenjamin@usg.com 312.436.5458
CT-04	2' x 2' x 5/8" ACOUSTICAL CEILING TILE	USG CEILINGS	OLYMPIA MICRO CLIMAPLUS CEILING PANEL #4211 EDGE GRID PROFILE DONN-DX	WHITE	ACOUSTICAL	FRONT OF HOUSE, CAN BE PAINTED PT-04 WHEN CT-03 CANNOT BE USED.	Chris Benjamin, cbenjamin@usg.com 312.436.5458
FLOO	R COVERING & BAS	CLYMPIA TILE	SERIES: ARBOR SELECTION GROUT: CUSTOM BUILDING PRODUCT #60 CHARCOAL	МОКА		INSTALL PLANKS WITH A 1/3 OFFSET. FRONT OF HOUSE & CUSTOMER	Kurt von Koss, kurt@beavertile.com
(FC-01)			1/8" GROUT JOINT SERIES: HOMESTEAD SERIES	OL.AR.MKA.0624		RESTROOMS. INSTALL PLANKS WITH A 1/3 OFFSET.	248.790.2197
ALT	6" x 24" PORCELAIN TILE	DALTILE	GROUT: CUSTOM BUILDING PRODUCT #47 CHARCOAL 1/8" GROUT JOINT SERIES: TEXTURED SERIES	BETULA		FRONT OF HOUSE & CUSTOMER RESTROOMS. INSTALL PLANKS WITH A 1/3 OFFSET.	Jennifer.McCormick@Daltile.com 616.862.4748
FC-03	6" x 6" TEXTURED QUARRY TILE	DALTILE	GROUT: CUSTOM BUILDING PRODUCT #47 CHARCOAL 1/8" GROUT JOINT	ASHEN GRAY		FRONT OF HOUSE & CUSTOMER RESTROOMS.	Jennifer.McCormick@Daltile.com 616.862.4748
FC-04	6"x6" STRATA TILE	SUMMITVILLE	SERIES: STRATA 2 TILE PRODUCTS GROUT: CUSTOM BUILDING PRODUCT #60 CHARCOAL 1/8" GROUT JOINT	DRIFTWOOD		PRODUCTION AREA/ BACK OF HOUSE/ WALK-IN COOLER	Kurt von Koss, kurt@beavertile.com 248.790.2197
FC-05	6" x 6" SMOOTH QUARRY TILE	METROPOLITAN CERAMICS	SERIES: QUARRY BASICS GROUT: CUSTOM BUILDING PRODUCT #60 CHARCOAL 1/8" GROUT JOINT	507 PURITAN GRAY		PRODUCTION AREA/ BACK OF HOUSE/ WALK-IN COOLER	Kurt von Koss, kurt@beavertile.com 248.790.2197
FC-05	8" x 8" SMOOTH QUARRY TILE	DALTILE	SERIES: QUARRY TEXTURES GROUT: CUSTOM BUILDING PRODUCT #60 CHARCOAL	ASHEN GRAY		PRODUCTION AREA/ BACK OF HOUSE/ WALK-IN COOLER	Jennifer.McCormick@Daltile.com 616.862.4748
ALT	INSET ENTRY WALKOFF MAT	MATS INC.	1/8" GROUT JOINT ULTRA ENTRY SYSTEM: NEW YORK COLLECTION	BROWN		RECYCLED BLACK VINYL NYLON INSETS. SEE DRAWINGS FOR CUSTOM SIZING.	Mark Saduauskas, msaduauskas@matsinc.com 614.743.7146
FC-07	24"x24" RUBBER FLOOR TILE	JOHNSONITE	RUBBER TILE FLOORING: TEXTURES 1/8" THICK.	20 CHARCOAL	RT RAISED ROUND	USE WITH VINYL STAIR NOSING #VIRCN-20-B - STEP @ ORDER COUNTER	Laurie Baatz, laurie.baatz@johnsonite.com 440.313.8238
FC-08	EPOXY FLOORING	SHERWIN WILLIAMS	GENERAL POLYMERS 3746	SILVER GRAY		DECORATIVE CHIP COLORS: LIGHT GRAY, MEDIUM GRAY, WHITE CHIP BROADCAST: LIGHT	CONTACT YOUR LOCAL SHERWIN WILLIAMS REPRESENTATIVE
(FC-09)	SHEET VINYL FLR. COVERING	POLYFLOR LTD.	POLYSAFE STANDARD PUR	TO BE DETERMINED BY OWNER		SPRINKLE/BROADCAST PRODUCTION AREA/ BACK OF HOUSE/ WALK-IN COOLER. 4" SITE FORMED	Kurt Topp,kurt@pfamerica.us,sales@pfamerica.us 717.517.5407
			SERIES: ARBOR SELECTION GROUT: CUSTOM BUILDING PRODUCT #60 CHARCOAL	MOKA		COVE WALL BASE PER MANUFACTURER. FRONT OF HOUSE. TRIM TOP EDGES W/ SQUARE EDGE BRUSHED ALUMINUM	Kurt von Koss, kurt@beavertile.com
	6" x 24" TILE WALL BASE	OLYMPIA TILE	BROWN 3/16" GROUT JOINT SERIES: HOMESTEAD SERIES	OL.AR.MKA.0624		SCHLUTER STRIP. FRONT OF HOUSE. TILE TO BE TURNED	248.790.2197
WB-01 ALT	6" x 24" TILE WALL BASE	DALTILE	GROUT: CUSTOM BUILDING PRODUCT #47 CHARCOAL 3/16" GROUT JOINT SERIES: QUARRY BASICS	BETULA		ON IT SIDE, CAP WITH BRUSHED ALUMINUM SCHLUTER STRIP.	Jennifer.McCormick@Daltile.com 616.862.4748
WB-02	5" x 6" SMOOTH QUARRY TILE COVED BASE W/ 3/8" COVE	METROPOLITAN CERAMICS	GROUT: CUSTOM BUILDING PRODUCT #60 CHARCOAL 3/16" GROUT JOINT	507 PURITAN GRAY		BACK OF HOUSE, WALK-IN COOLER. 5" × 6" COVE BASE OUTSIDE CORNER, 1" × 5" COVE BASE INSIDE CORNER.	Kurt von Koss, kurt@beavertile.com 248.790.2197
WB-02 ALT	5" x 8" SMOOTH QUARRY TILE COVED BASEW/ 3/8" COVE	DALTILE	SERIES: QUARRY TEXTURES GROUT: CUSTOM BUILDING PRODUCT #60 CHARCOAL 3/16" GROUT JOINT	0T03 ASHEN GRAY		BACK OF HOUSE, WALK-IN COOLER. 5" x 6" COVE BASE OUTSIDE CORNER, 1" x 5" COVE BASE INSIDE CORNER.	Jennifer.McCormick@Daltile.com 616.862.4748
WB-03	6" x 6" SMOOTH COVED BASE W/ 3/8" COVE	DALTILE	SERIES: 6 x 6 x 3/8" CERAMIC COVE BASE GROUT: 1/8" GROUT JOINT, WHITE NON-SANDED GROUT	S3619TN ARCTIC WHITE		CUSTOMER ACCESSIBLE RESTROOMS.	Jennifer.McCormick@Daltile.com 616.862.4748
(T-01)	TRANSITION STRIP	JOHNSONITE	#CE-76-C WITH METAL TRACK TRACK #MT-00-A	76 CINNAMON		TRANSITION FROM 3/8" THICK FOH PORCELAIN TILE TO 1/2" THICK BOH	Laurie Baatz, laurie.baatz@johnsonite.com 440.313.8238
	TRANSITION STRIP	JOHNSONITE	#SLT-76-F SLIM LINE TRANSITIONS	76 CINNAMON		QUARRY TILE TRANSITION FROM 3/8" THICK FOH PORCELAIN TILE TO 1/4" THICK BOH	Laurie Baatz, laurie.baatz@johnsonite.com
(T-01) ALT						PORCELAIN TILE TO 1/4" THICK BOH PORCELAIN TILE TRANSITION FROM LOBBY TILE FLOOR	440.313.8238
(T-02)	TRANSITION STRIP	SCHLUTER	SCHIENE	ANODIZED ALUMINUM - A/ATB		BASE TO WALL FINISH & TRANSITION FROM PORCELAIN TILE TO INSET WALK-OFF MAT	www.schluter.com 800.667.8746
(T-03)	TRANSITION STRIP	SCHLUTER	SCHIENE	STAINLESS STEEL - E		TRANSITION FROM BATHROOM WALL TILE TO BLUE PAINT & TRANSITION FROM	
PAINT						KITCHEN WALL TILE TO ANY OTHER WALL SURFACE	800.667.8746
PT-01	RED PAINT	SHERWIN WILLIAMS PROMAR 200 BRAND	INTERIOR WALLS: SEMI-GLOSS EXTERIOR TRIM AND HARDIPLANK: SATIN FINISH	REAL RED SW6868	(MATTE) EGGSHELL (UNLESS SEMI-GLOSS REQ'D BY LOCAL MUNICIPALITY) (MATTE) EGGSHELL	PROMAR 200 BRAND REQUIRED FOR VINYL GRAPHICS TO PROPERLY ADHERE	www.sherwin-williams.com 800.321.8194
PT-02	BLUE PAINT	BENJAMIN MOORE	INTERIOR WALLS: SEMI-GLOSS EXTERIOR TRIM AND HARDIPLANK: SATIN FINISH INTERIOR WALLS: SEMI-GLOSS	CALIFORNIA BLUE 2060-20 BAGUETTE	(UNLESS SÉMI-GLOSS REQ'D BY LOCAL MUNICIPALITY) (MATTE) EGGSHELL	RESTROOM WALLS ABOVE SUBWAY TILE PROMAR 200 BRAND REQUIRED FOR	www.benjaminmoore.com 866.708.9181 www.sherwin-williams.com
(PT-03) (PT-04)	CRUST PAINT DROP CEILING PAINT	PROMAR 200 BRAND		SW6123 CHINCHILLA	(UNLESS SEMI-GLOSS REQ'D BY LOCAL MUNICIPALITY) MATTE	VINYL GRAPHICS TO PROPERLY ADHERE	800.321.8194 www.sherwin-williams.com
PT-05	CHALKBOARD PAINT	BENJAMIN MOORE	BLACK CHALKBOARD PAINT USE A PRIMER WITH A HARDENER ADDITIVE	SW6011 307-80		INTERIOR WALLS AS NOTED MINIMUM 5 COATS	800.321.8194 www.benjaminmoore.com 866.708.9181
PT-06	OPEN CEILING PAINT	SHERWIN WILLIAMS	OPEN CEILING: MATTE FINISH	TRICORN BLACK SW6258 (DRY-FALL)	MATTE (EGGSHELL)	OPEN CEILING WALLS AND DIFFUSER PAINT 11'-0" AND ABOVE	www.sherwin-williams.com 800.321.8194
PT-07	OPEN CEILING PAINT	SHERWIN WILLIAMS	OPEN CEILING: MATTE FINISH	JAVA SW6090 (DRY-FALL) SILVER SPARKLE	MATTE (EGGSHELL)	OPEN CEILING WALLS AND DIFFUSER PAINT 11'-0" AND ABOVE DINING LEDGE LEGS AND BASE PLATE,	www.sherwin-williams.com 800.321.8194 Brandon Phillips, bphillips@ifscis.com
PT-08 PT-10	POWDERCOAT PAINT	IFS COATINGS, INC.	MILLWORK, FIXTURES AND OR FURNITURE	PRSS 90708 EXTRA WHITE	(MATTE) EGGSHELL (UNLESS SEMI-GLOSS REQ'D	POS FASCIA EXTERIOR TRIM AND BUILDING COLOR,	866.437.2864 www.sherwin-williams.com
PT-11	PATINA BLUE PAINT	KOBOLT STUDIOS	EXTERIOR TRIM AND ACCENT: SATIN FINISH CUSTOM PATINA FINISH TO MATCH OWNER'S CONTROL SAMPLE	SW7006 CUSTOM PT-02 AS BASE	BY LOCAL MUNICIPALITY)	INTERIOR PAINT AS NOTED WEATHERED LOOK EXTERIOR PAINT OVER BRICK AND HARDIPLANK	800.321.8194 Jerry Ulibarri, jerry@kpbolt.com 614.299.0969
PT-12	WHITE FRP PAINT	US COATING SOLUTIONS	DOMINO'S SUPER COAT PAINT: WALL EPOXY SYSTEM	DOMINO'S WHITE	N/A	FOR RE-PAINTING EXIST. WHITE FRP & WALK-IN COOLER WITHIN CUST. VIEW	Gary Hanson 386.313.3033
WALL	COVERING WHITE SUBWAY TILE	OLYMPIA TILE	SERIES: COLOR AND DIMENSION 100 ULTRA WHITE 3" x 6"	ARCTIC WHITE	BRIGHT	PRODUCTION AREA AND RESTROOMS,	Kurt von Koss, kurt@beavertile.com 248.790.2197
WT-01	WHITE SUBWAY TILE	DALTILE	GROUT: 1/8" GROUT JOINT, WHITE NON-SANDED GROUT SERIES: LARGO 3" X 6" LR94 WHITE CROUT: 4 /0" CROUT, JOINT, WILLER NON CANDED CROUT	WHITE	BRIGHT	CAP W/ 6" x 2" TRIM CAP OR BULLNOSE. PRODUCTION AREA AND RESTROOMS,	Derrick Rose, drose@beavertile.com 248.476.2333 Jennifer.McCormick@Daltile.com 616.862.4748
ALT WT-01 ALT 2	WHITE SUBWAY TILE	DALTILE	GROUT: 1/8" GROUT JOINT, WHITE NON-SANDED GROUT SERIES: LARGO 3" X 6" LR94 WHITE GROUT: 1/8" GROUT JOINT, WHITE NON-SANDED GROUT	VITRUVIAN WHITE	GLOSSY	CAP W/ 6" x 2" TRIM CAP OR BULLNOSE. PRODUCTION AREA AND RESTROOMS, CAP W/ 6" x 2" TRIM CAP OR BULLNOSE.	Jennifer.McCormick@Daltile.com 616.862.4748
WT-04	WHITE FRP WALL PANEL (STANDARD)	MARLITE	P-100 PEBBLE SURFACE	WHITE		BOH OUT OF CUSTOMER SIGHT	Tim Pinnow, tpinnow@marlite.com 330.260.7631
WT-05	BEIGE FRP WALL PANEL		P-106 PEBBLE SURFACE	BEIGE		RE-IMAGE CHAIR RAIL, VESTIBULE, AS REQUIRED RE-IMAGE CHAIR RAIL, VESTIBULE, AS	Tim Pinnow, tpinnow@marlite.com 330.260.7631 www.cranecomposites
WT-06 WT-07	(STANDARD) RED SUBWAY TILE	CRANE COMPOSITES	STC - SANDSTONE SURFACE 3" X 6" RED SUBWAY TILE GROUT: 1/8" GROUT JOINT, WHITE NON-SANDED GROUT	731 RED RED PEPPER		REQUIRED 60" A.F.F. IN PRODUCTION AREA WHERE WHITE SUBWAY TILE IS INSTALLED	800.435.0080 Kurt von Koss, kurt@beavertile.com 248.790.2197
WT-07 ALT	RED SUBWAY TILE	DALTILE	3" X 6" RED SUBWAY TILE GROUT: 1/8" GROUT JOINT, WHITE NON-SANDED GROUT GROUT: 1/8" GROUT JOINT, WHITE NON-SANDED GROUT	CURRANT RED		60" A.F.F. IN PRODUCTION AREA WHERE WHITE SUBWAY TILE IS INSTALLED	Jennifer.McCormick@Daltile.com 616.862.4748
WT-08	BLUE SUBWAY TILE	BEAVERTILE	3" X 6" BLUE SUBWAY TILE GROUT: 1/8" GROUT JOINT, WHITE NON-SANDED GROUT	BLUE		PT-02 ALTERNATE, IN RESTROOMS ABV. WHITE SUBWAY TILE	Kurt von Koss, kurt@beavertile.com 248.790.2197
WT-08 ALT	BLUE SUBWAY TILE	DALTILE	3" X 6" BLUE SUBWAY TILE GROUT: 1/8" GROUT JOINT, WHITE NON-SANDED GROUT 3" X 6" BLUE SUBWAY TILE	COBALT BLUE		PT-02 ALTERNATE, IN RESTROOMS ABV. WHITE SUBWAY TILE PT-02 ALTERNATE, IN RESTROOMS ABV.	Jennifer.McCormick@Daltile.com 616.862.4748
WT-08 ALT 2 PLAST	BLUE SUBWAY TILE	DALTILE	3" X 6" BLUE SUBWAY TILE GROUT: 1/8" GROUT JOINT, WHITE NON-SANDED GROUT	SEA BREEZE	LESS BRIGHT	P1-02 ALTERNATE, IN RESTROOMS ABV. WHITE SUBWAY TILE	Jennifer.McCormick@Daltile.com 616.862.4748
PL-01	LAMINATE	WILSONART	1573-60	FROSTY WHITE	MATTE	AS REQUIRED	Leslie Humphrey, humphrl@wilsonart.com 614.893.6853
PL-02	LAMINATE	NEVAMAR	\$1027T	LIBERTY RED	TEXTURED	RED ELEMENT, RE-IMAGE CHAIR RAIL, VESTIBULE, AS REQUIRED RE-IMAGE CHAIR RAIL,	Tom Cartwright, tom_cartwright@panolam.com 937.477.7837 www.formica.com
PL-03 (PL-04)	LAMINATE	FORMICA	1903-58 7941K-18	CAFE TAN ECHO	MATTE	VESTIBULE, AS REQUIRED STANDING/ DINING LEDGES, TABLE	800.367.6422 Leslie Humphrey, humphrl@wilsonart.com
PL-04 PL-05	LAMINATE	WILSONART	4830K-18	SATIN STAINLESS	LINEARITY	TOPS MAKELINE/ DOUGH WALL FASCIA ON CUSTOMER SIDE	614.893.6853 Leslie Humphrey, humphrl@wilsonart.com 614.893.6853
META		L		BRUSHED NATURAL		MAKELINE/ DOUGH WALL FASCIA ON	chemetal.com
MT-01 (MT-02)	STAINLESS STEEL	CHEMETAL	700 SERIES HPL CLASSICS 18 GA, S.S. W/ HEMMED TOP AND SIDES	ALUMINUM #702			GENERAL CONTRACTOR TO PROVIDE
	SURFACE			 	STEP.		
(SS-01) WIND	SOLID SURFACE	CORIAN BY DUPONT	TERRA COLLECTION 1/2" THICK	AURORA		DOUGH CONTERTOP, CUSTOMER LEDGE AT DOUGH FEATURE, POS COUNTERTOP	Dave Greening david.p.greening@dupont.com 614.975.6700
WINDO	SOLAR WINDOW SHADES	MECHO SHADES	THERMOVEIL BASKET WEAVES 1304 63" AND 96", SINGLE BRACKET, MANUAL DRIVE SYSTEM	1304 BLACK/ BROWN	OPENNESS: 5%	FRONT WINDOWS	Deb Mak, dmak@kma.com 614.563.0569
WS-02	SOLAR WINDOW SHADES	MECHO SHADES	THERMOVEIL BASKET WEAVES 1317 63" AND 96", SINGLE BRACKET, MANUAL DRIVE SYSTEM	1317 STRAW	OPENNESS: 5%	FRONT WINDOWS	Deb Mak, dmak@kma.com 614.563.0569
		SUNBRELLA	#4666 46" WIDE, 100% SOLUTION DYED ACRYLIC	LOGO RED		EXTERIOR AWNINGS	Glen Raven Custom Fabrics
FABRI	EXTERIOR AWNING			-	1		336.221.2211 www.cooleygroup.com
	EXTERIOR AWNING EXTERIOR AWNING	COOLEY SIGN AND AWNING PRODUCTS	COOLEY BRITE	#0132 BRIGHT RED		EXTERIOR AWNINGS	800.992.0072
(FB-01) (FB-02) GUAR	EXTERIOR AWNING	COOLEY SIGN AND AWNING PRODUCTS					
(FB-01) (FB-02) GUAR	EXTERIOR AWNING	COOLEY SIGN AND	COOLEY BRITE	#0132 BRIGHT RED STAINLESS STEEL STAINLESS STEEL	BRUSHED	EXTERIOR AWNINGS REQUIRED ALL OUTSIDE CORNERS REQUIRED ALL WALL END CAPS	

3 5/8" 20GA METAL -STUDS @ 16" O.C. -

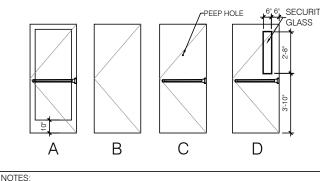
CDX PLYWOOD TO BE USED BEHIND ALL WALL MOUNTED COMPUTER EQUIPMENT AND PLUMBING FIXTURES.

5/8" GYPSUM BOARD BOTH SIDES SEE PARTITION & FINISH PLAN FOR WALL FINISH $\langle A \rangle$

WALL ASSEMBLY TYPES ´ 2 `

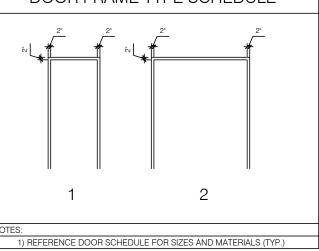
DOOR SCHEDULE

	DOONOONEDOEE													
£)	SI	ZE	ΤY	PE	GLASS	MA	TERIAL	HARDWARE	NOTES					
ン	WIDTH	HEIGHT	DR.	FR.	GLASS	DR.	FR.	HARDWARE	NULES					
1	3'-0"	6'-8"	В	1		SCWD	ΗM	GROUP 1	B2,D,F					
2	3'-0"	6'-8"	В	1		SCWD	ΗM	HM GROUP 2 B2,F						
3	3'-0"	7'-0"	D 1 TEMP STL HM GROUP 3 A,B2,C,D,I											
OTES:														
١.	ENSURE EMERGENCY HARDWARE IN WORKING CONDITION OR ADD NEW.													
1	DOOR A	ND FRAN	IE S	HAL	L BE PAINT	ED PT-0	1							
2	DOOR A	ND FRAN	IE S	HAL	L BE PAINT	ED PT-1	0							
2					STED ABO		STATES	"THIS DOOF	TO REMAIN					
)		r shall e Head-jan				GH DOC	R LEAF	AND ARM M	OUNTED					
	PROVID EXISTIN		COM	PLIA	NT THRES	HOLD SE	ET IN SIL	ICONE SEAL	ANT, IF NOT					
:		,						SHALL NOT SIDE OF THE						
		DC	0	R	TYPE	SCH	HED	ULE						



DOOR FRAME TYPE SCHEDULE

1) REFERENCE DOOR SCHEDULE FOR SIZES AND MATERIALS (TYP.)



HARDWARE GROUPS

GROUP 1: RESTROOM DOORS
(1 1/2 PAIR) HINGES: COMMERCIAL
(1) SILENCER
(1) DOOR STOP: WALL MTD.

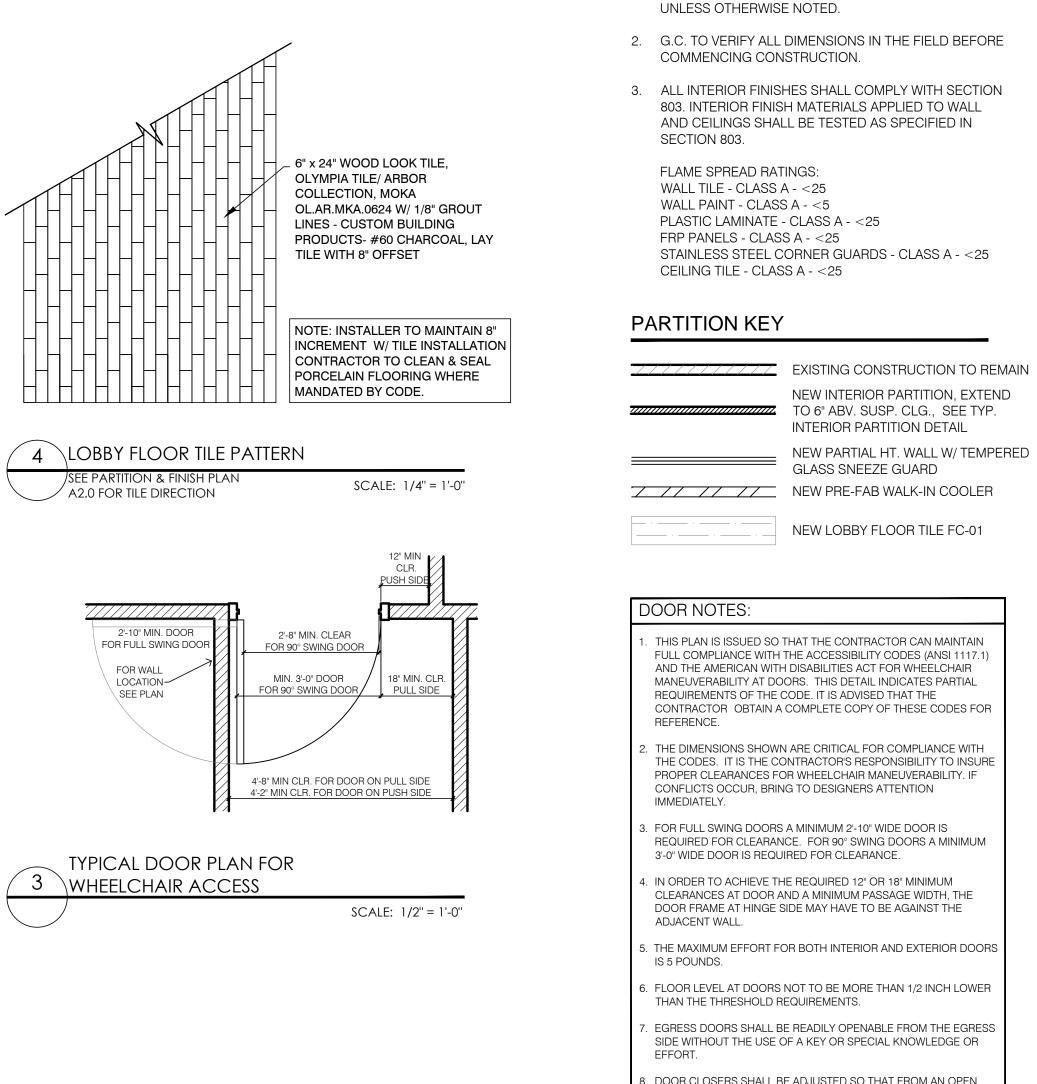
GROUP 2: UTILITY ROOM DOOR (1 1/2 PAIR) HINGES: COMMERCIAL (1) SILENCER (1) DOOR STOP: WALL MTD. (1) LATCHSET: PRIVACY FUNCTION (1) LATCHSET: PASSAGE FUNCTION

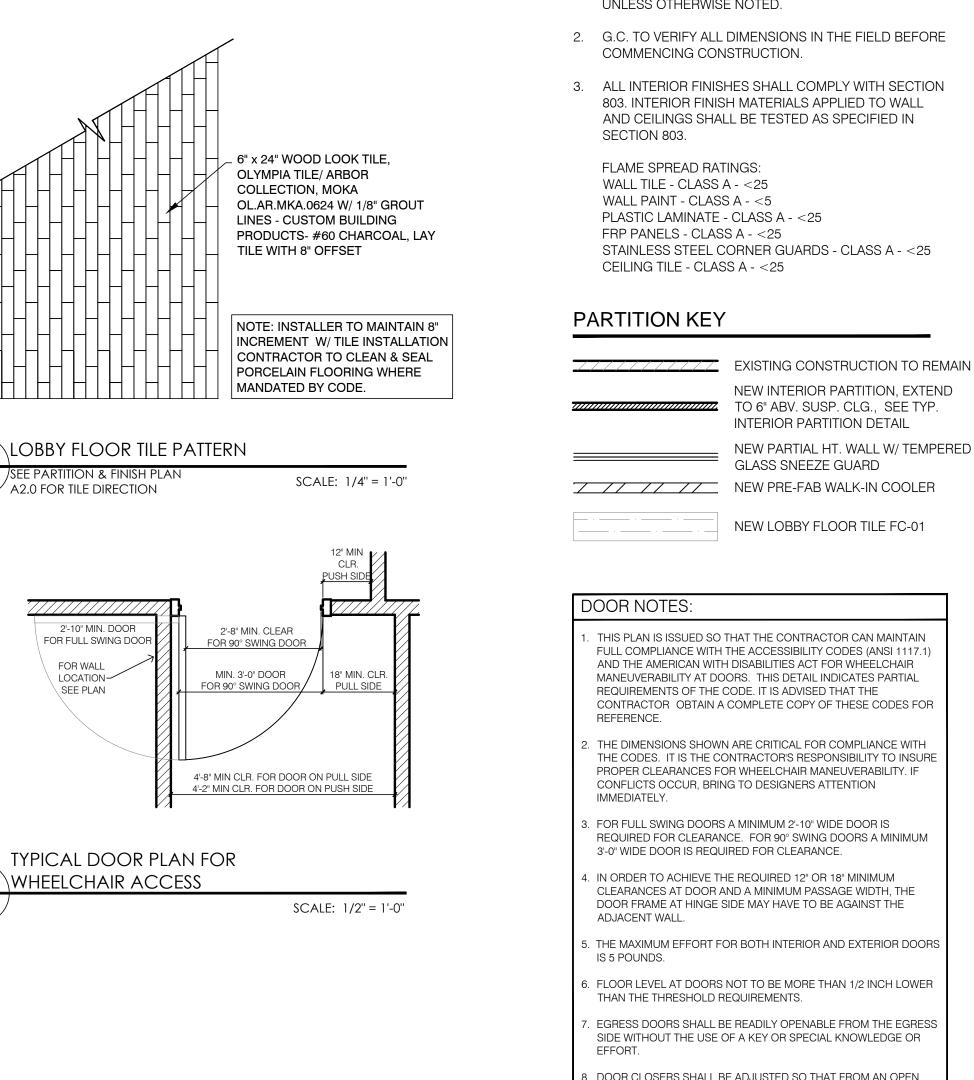
(1) CLOSER GROUP 3: COMMISSARY DOOR

(1) CLOSER: HEAVY DUTY (1 1/2 PAIR) HINGES: 4" SECURITY

- (1) SILENCER (1) WEATHER STRIPPING KIT
- (1) DEADBOLT: W/LONG THROW AND REINFORCED BOLT BOX
- (1) PULL: EXTERIOR "D" HANDLE (1) BOTTOM SWEEP:CENTER RECESSED
- (1) THRESHOLD: EXTRUDED ALUMINUM (1) KICKPLATE: 24" HIGH STAINLESS STL. (1) ELECTROMATIC LATCH RELEASE
- (1) EMERGENCY HARDWARE

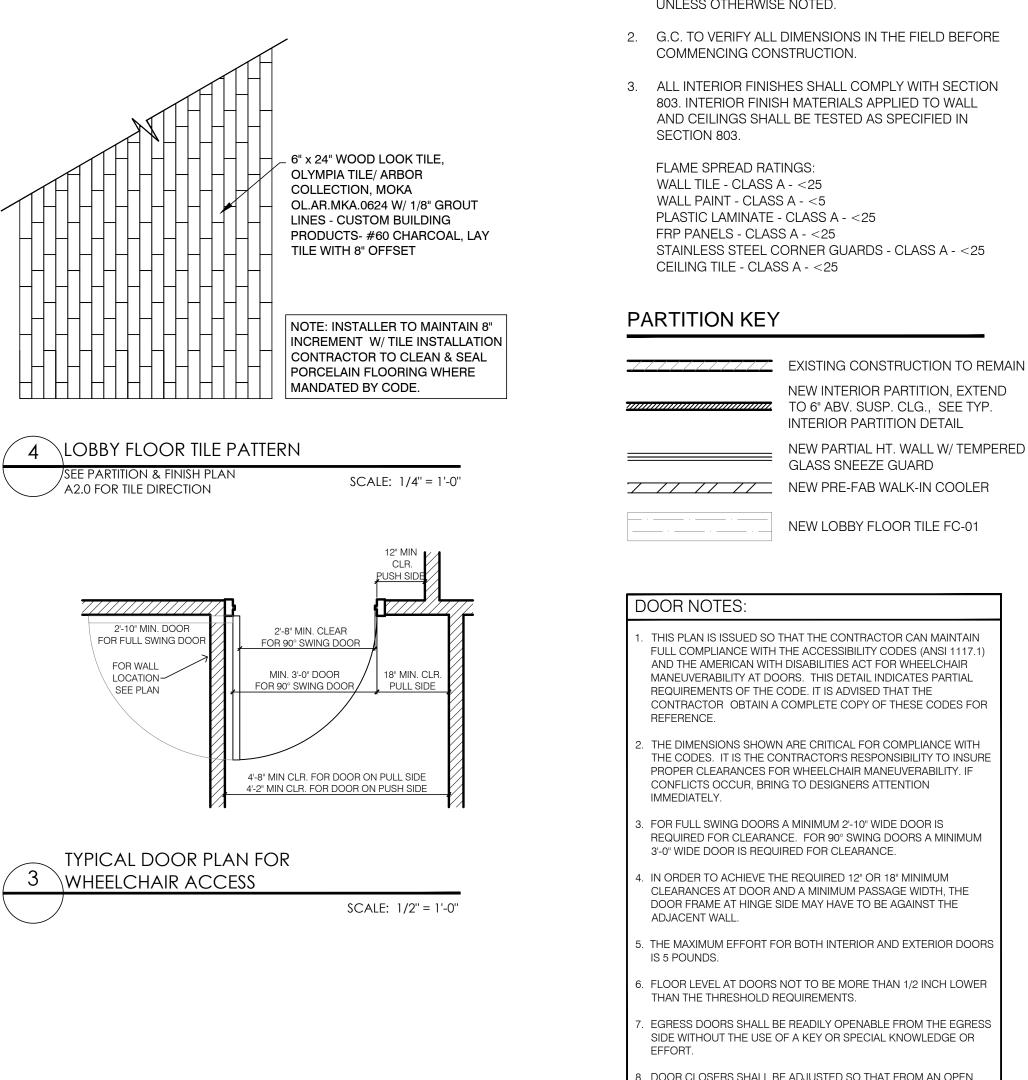
NOTE: HAND-ACTIVATED DOOR-OPENING HARDWARE SHALL BE CENTERED BETWEEN 30 AND 44 INCHES ABOVE THE FLOOR. LATCHING AND LOCKING DOORS THAT ARE HAND-ACTIVATED AND WHICH ARE IN A PATH OF TRAVEL SHALL BE OPERABLE WITH A SINGLE EFFORT BY LEVER-TYPE HARDWARE, PANIC BARS, PUSH-PULL ACTIVATING BARS, OR OTHER HARDWARE DESIGNED TO PROVIDE PASSAGE WITHOUT REQUIRING THE ABILITY TO GRASP THE OPENING HARDWARE.

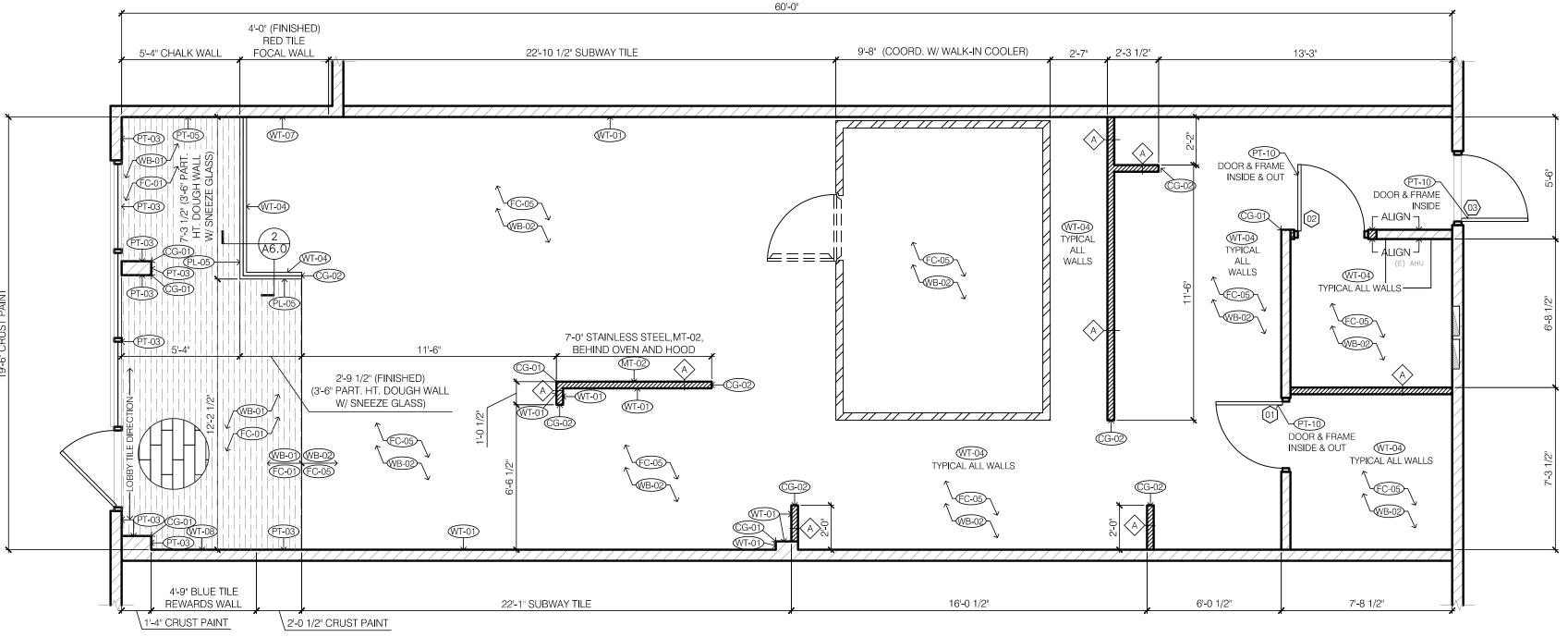


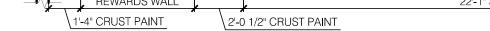


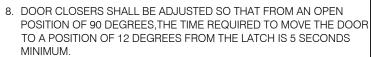
GENERAL NOTES

1. ALL DIMENSIONS OF NEW WALLS TO FACE OF STUD







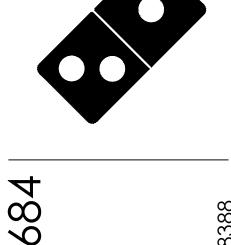


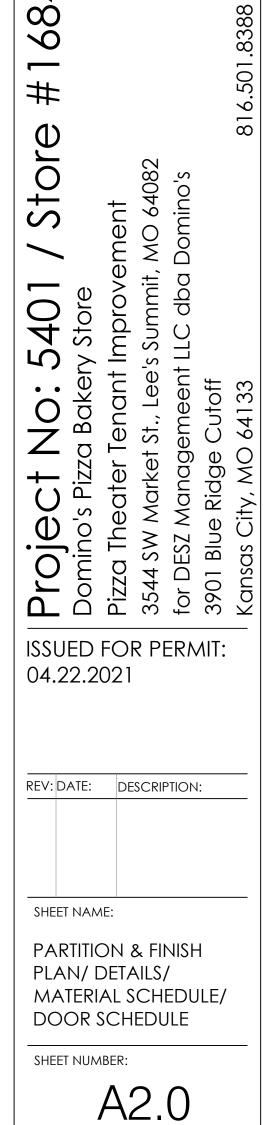


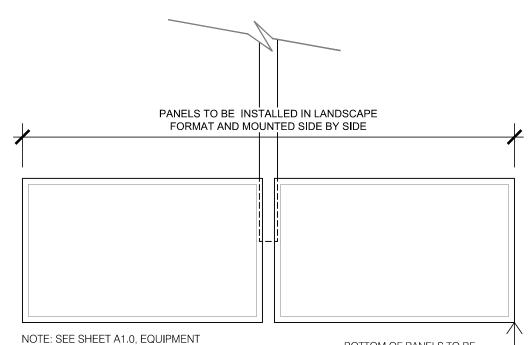


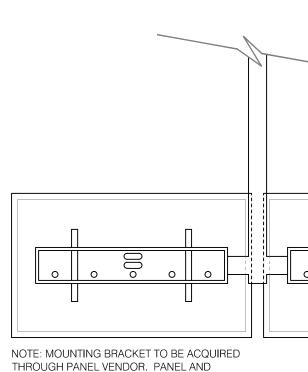
PORTLAND, OR 97214 V. 503.552.9079 F. 503.241.7055 WWW.GNICHARCH.COM









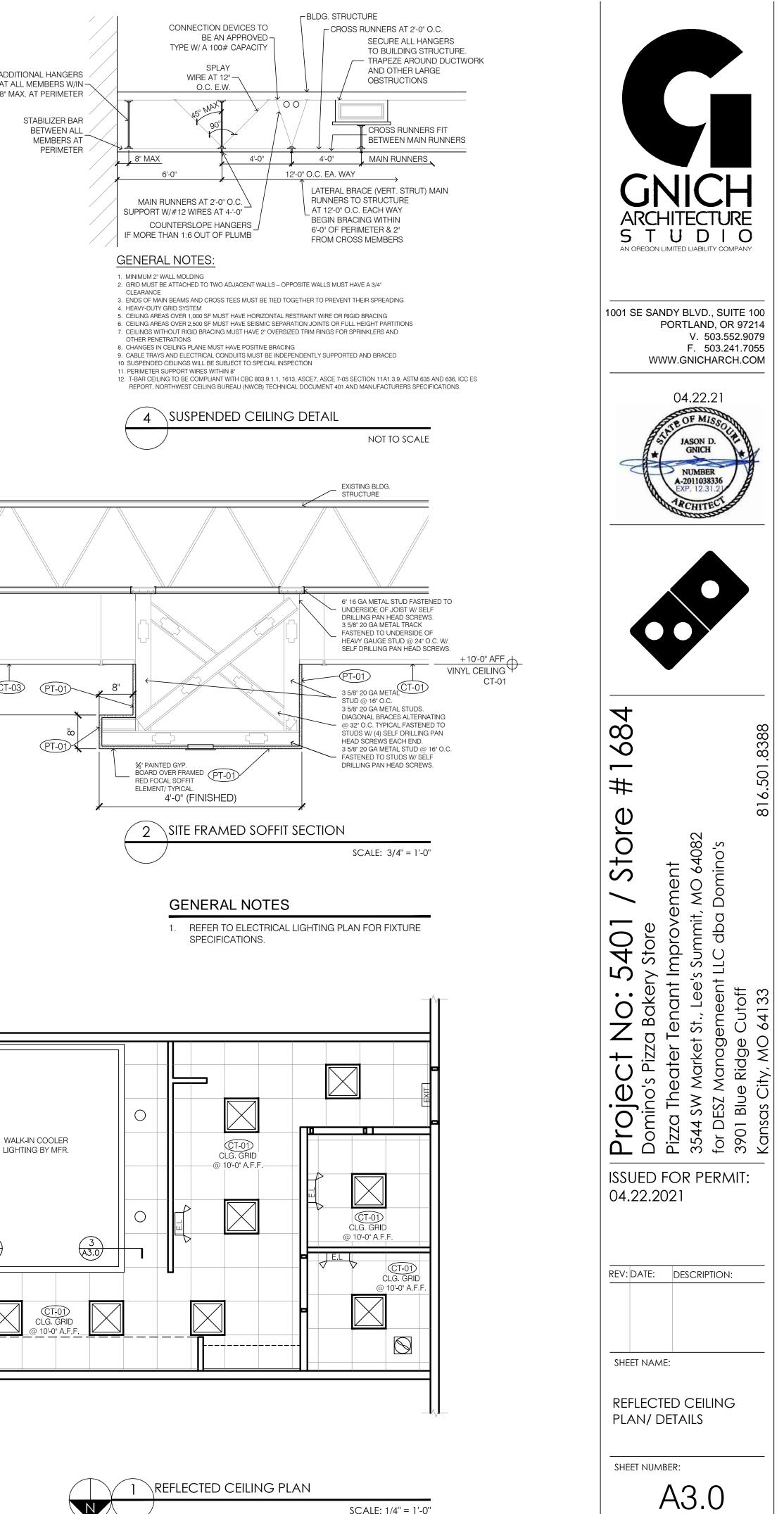


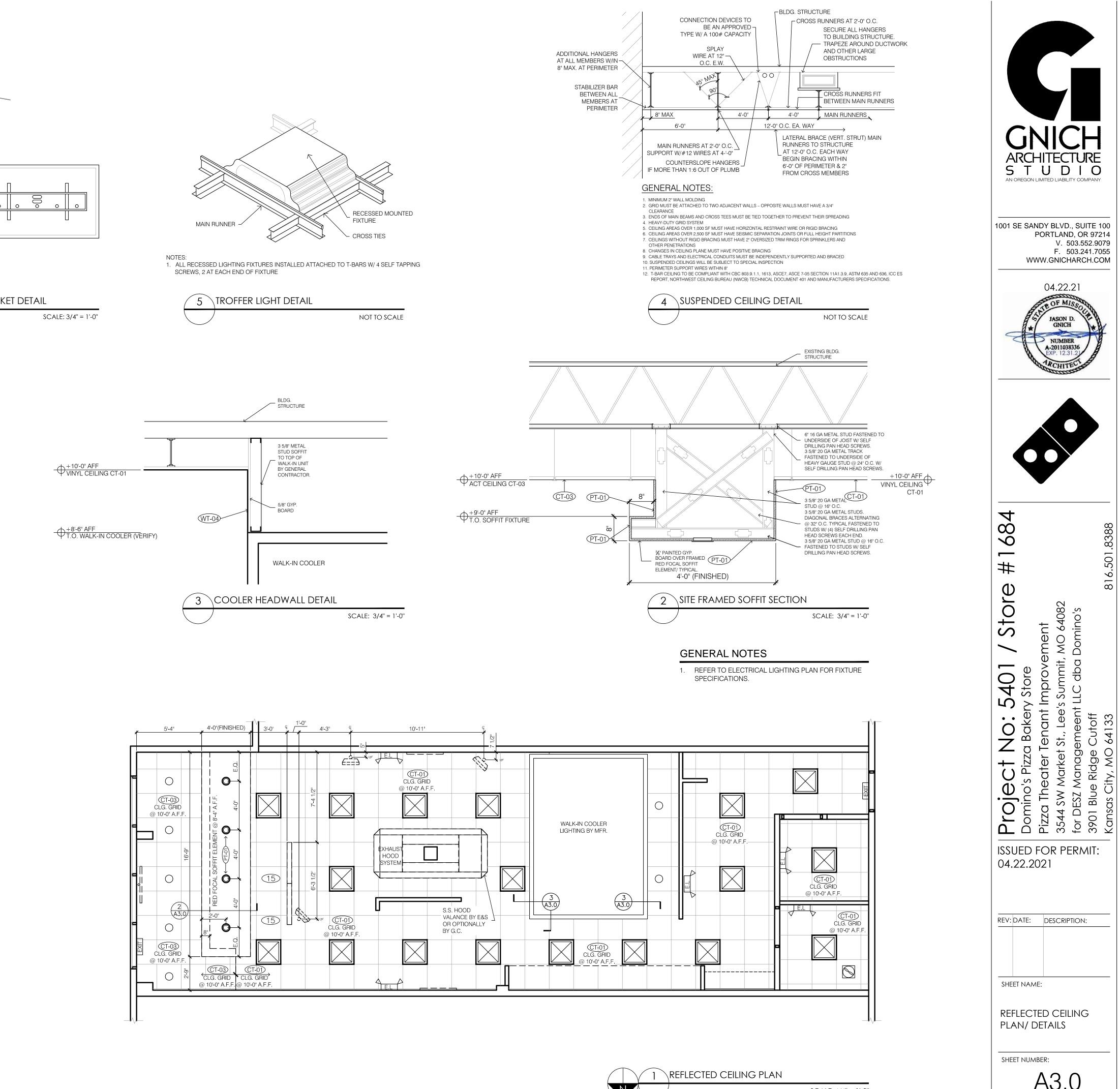
MOUNTING BRACKET TO BE INSTALLED BY G.C.

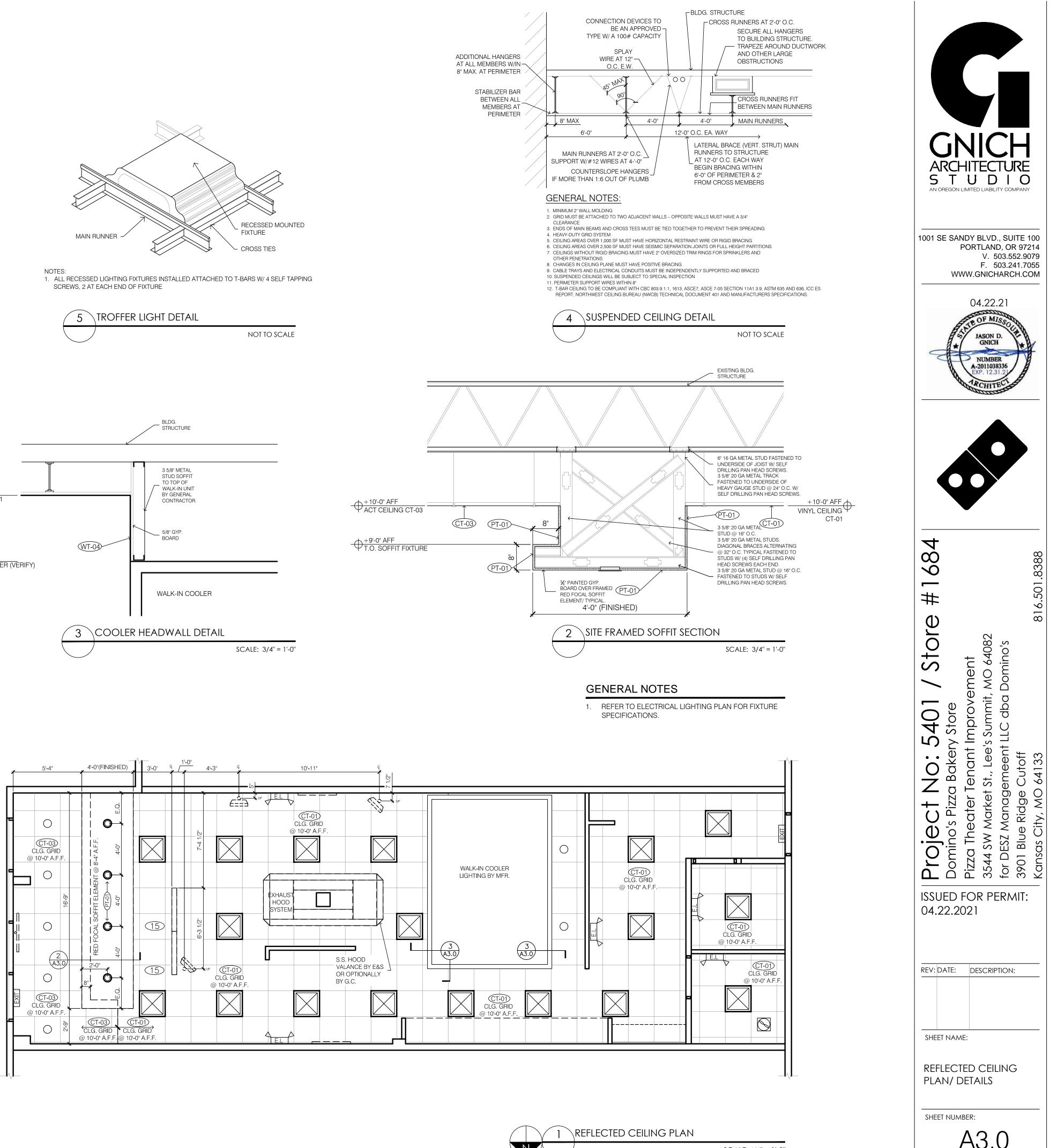
SCHEDULE, FOR PANEL INFORMATION

BOTTOM OF PANELS TO BE NO LESS THAN 6' - 8" A.F.F.

6 MENU BOARD BRACKET DETAIL

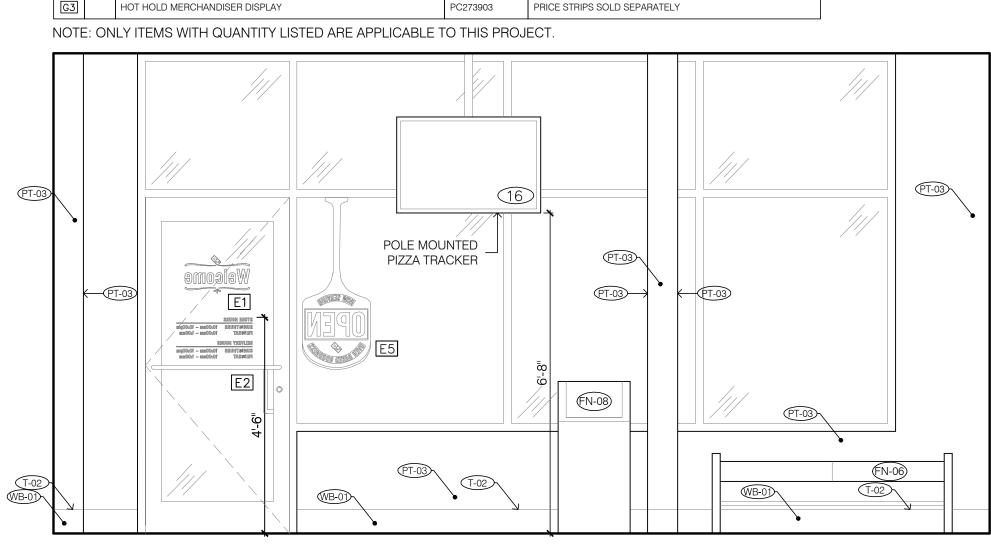




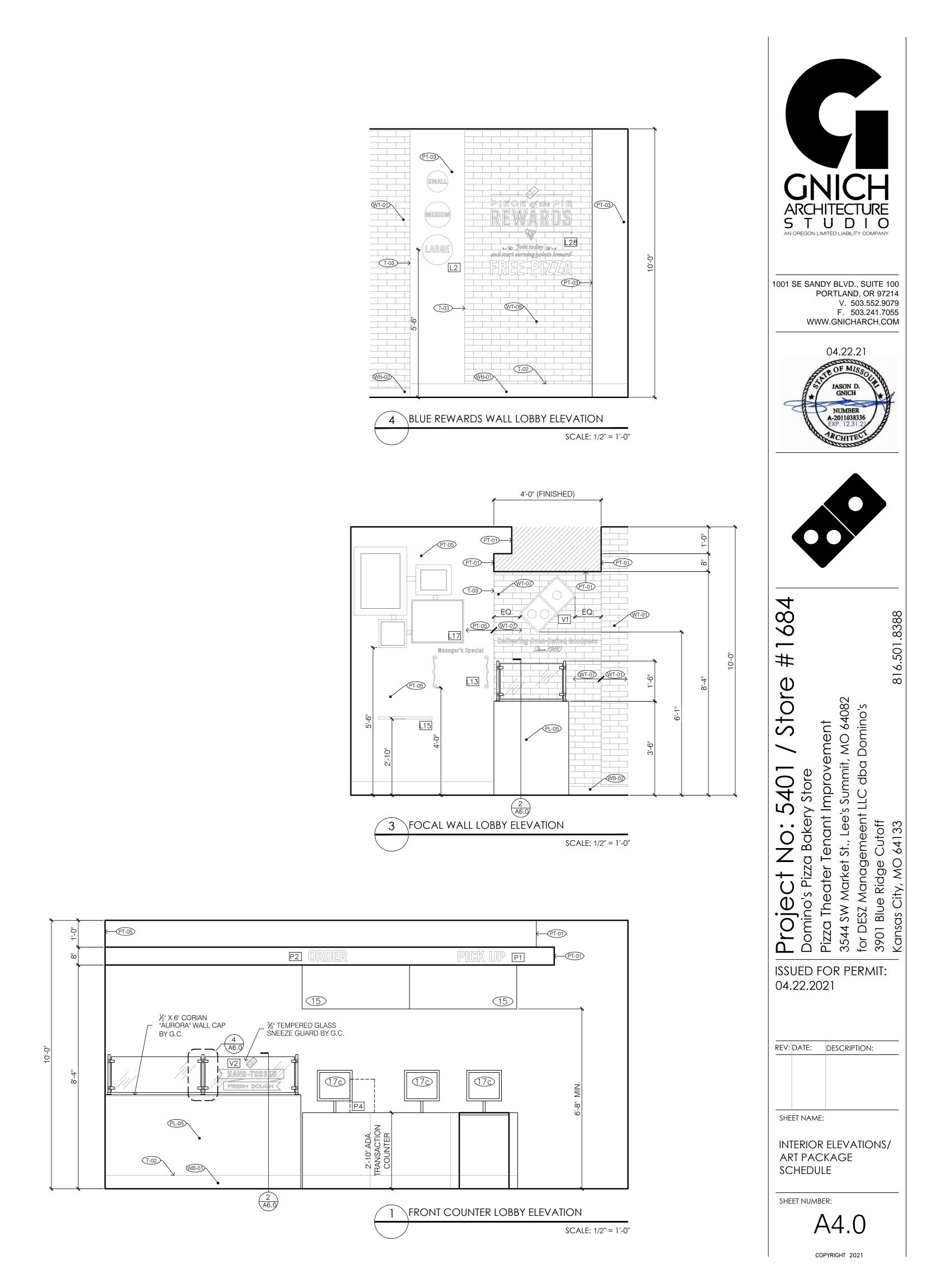


SCALE: 1/4" = 1'-0"

MARK		ART PACKAGE SCHEDULE	OWNER IS TO BE PRODUCT CODI	ULTIMATELY RESPONSIBLE FOR ALL ORDERS.
		CS: ENTRYWAY		
E1	1		PC273243	EVERY PIZZA THEATER STORE MUST ORDER
E2 E3	1	STORE HOUR'S VINYL PER DOMINO'S STANDARDS	BY OWNER	
<u>E3</u> E4		WELCOME GLASS PARTITION WALL VINYL "PICK-UP WINDOW" OPEN PEEL SIGN - HALO LIT	PC237260	UTILIZED AS A SECOND SIGN IN STORES THAT NEE
E5	1	"NOW SERVING" OPEN PEEL SIGN - HALO LIT	PC284052	EVERY PIZZA THEATER STORE MUST ORDER
E6		LOGO - EXTERIOR WINDOW VINYL	PC273259	
	PHIC	CS: WALLPAPER		
W1		COLORED NEWSPRINT WALLPAPER #1	PC283091	OPTIONAL RESIN BOARD (PC283081)
W2]		COLORED NEWSPRINT WALLPAPER #2	PC283092	OPTIONAL RESIN BOARD (PC283082)
W3		COLORED NEWSPRINT WALLPAPER #3	PC283093	OPTIONAL RESIN BOARD (PC283083)
N4		COLORED NEWSPRINT WALLPAPER #4	PC283094	OPTIONAL RESIN BOARD (PC283084)
W5		BLUE LOYALTY WALL PANEL	-	TEXTURED SURFACE VINYL BY MLE
GRA	PHIC	CS: LOBBY WALLS		1
L1		SIZE PIZZA PAN ART (SET OF 6)	PC273258	5'-6" TO CENTER OF BOTTOM ROW FROM FLOOR
L2	1	SIZE PIZZA PAN ART (SET OF 3)	PC273257	5'-6" TO CENTER OF BOTTOM ROW FROM FLOOR XL SOLD SEPERATELY - PC 273263
L3		INGREDIENT PIZZA PAN ART (SET OF 4)	PC273211	5'-2" AFF TO BOTTOM OF PANS. EVERY REMODEL N EITHER PAN ART OR LOBBY FRAMED PHOTO COLL
L4		WHY WAIT & MCB PAN ART (SET OF 2)	PC273250	5'-2" AFF TO BOTTOM OF PANS. EVERY NEW STORE HAVE LOBBY FRAMED ART AND ONE PAN ART PAC
L5		PEPPER & DOM PAN ART (SET OF 2)	PC273251	5'-2" AFF TO BOTTOM OF PANS. EVERY NEW STORE HAVE LOBBY FRAMED ART AND ONE PAN ART PAC
L6		ANYWARE & SC BREAD PAN ART (SET OF 2)	PC273266	5'-2" AFF TO BOTTOM OF PANS. EVERY NEW STORE HAVE LOBBY FRAMED ART AND ONE PAN ART PAC
L7		"CAUTION DELIVERY EXPERTS" DOOR VINYL	PC273217	USED IF GLASS DOOR SEPARATES LOBBY FROM PRODUCTION AREA
_8		"TRACK IT" DIMENSIONAL RIBBON	PC273215	
L9		FREE WiFi SPOT	PC273216	NEW STORE LAYOUT ONLY - NOT RETROFIT
_10		"HAND TOSSED FRESH DOUGH" WALL VINYL	PC273224	
L11		"90% OF FRANCHISEES" WALL VINYL	PC283253	
L12		PIZZA PROVERB - CHALK WALL VINYL	PC273208	5'-1" AFF TO BOTTOM OF BRACKET
L13	1	MANAGER'S SPECIAL - CHALK WALL VINYL	PC283209	4'-6" AFF TO BOTTOM OF BRACKET
_14		TELL US WHAT YOU THINK - CHALK WALL VINYL	PC273252	CHALK WALL
_15	1	2' CHALK TRAY	PC273025	2'-10" AFF ON CHALK WALL
_16		4' CHALK TRAY	PC273027	2'10" AFF ON CHALK WALL
_17	1	FRAMED PHOTO COLLAGE (SET OF 4)	PC273256	EVERY NEW STORE MUST HAVE LOBBY FRAMED AI PAN ART PACKAGE BOTTOM SHOULD BE 5'-6" FR
18		WW/REWARD/MCB 20" X 24" RED 3PC WALL PRINTS	PC273420	
_19		ONLINE/LOGO/PAN 20" X 24" RED 3PC WALL PRINTS	PC273421	
.20		LOGO 30" X 36" RED WALL PRINT	PC273412	
_21		MARBLED COOKIE BROWNIE 30" X 36" RED WALL PRINT	PC273413	
_22		EASY ORDER 30" X 36" RED WALL PRINT	PC273414	
.23		MEET DOM 30" X 36" RED WALL PRINT	PC273415	
.24		WHY WAIT? 30" X 36" RED WALL PRINT	PC273416	
.25		ORDER ONLINE 30" X 36" RED WALL PRINT	PC273417	
_26		HANDMADE PAN PIZZA 30" X 36" RED WALL PRINT	PC273418	
.27		REWARDS 30" X 36" RED WALL PRINT	PC273419	
_28	1	REWARDS 30" X 36" WALL PRINT	-	-
	PHIC	CS: CUSTOMER VIEWING LEDGE		1
V1	1	DIMENSIONAL LOGO AND BRAND STATEMENT VINYL	PC283221/22	RED FOCAL WALL - 6'-1" TO BOTTOM OF DOMINO
V2	1	"HAND TOSSED DOUGH" VINYL	PC273223	SNEEZE GUARD IN FRONT OF DOUGH COUNTER
∨3		"DON'T FEED THE EMPLOYEES" VINYL	PC273229	SNEEZE GUARD IN FRONT OF MAKELINE
V4		"450° IS THE TEMP IT TAKES" VINYL	PC273230	SNEEZE GUARD IN FRONT OF MAKELINE
V5		"WE WORK HARD" VINYL	PC273228	SNEEZE GUARD IN FRONT OF MAKELINE
V6		"PIZZA INSPECTOR" STEP UP VINYL	PC284033	CHILD STEP - 1'-9" AFF TO BOTTOM OF GRAPHIC
зКА P1	PHIC	CS: POS	DC072020	MUSTUSE
	-		PC273232	MUST USE
P2	1	"ORDER" SOFFIT DIMENSIONAL LETTERS		
P3		"PICK UP" POS VINYL	PC273231	USE ON COUNTERS IF NO SOFFIT AVAILABLE
P4		PROMO CHALKBOARD FOR POS COUNTER CS: RESTROOM	PC273237	
R1	I I IIC	RESTROOM FRAMED ART (SET OF 2)	PC273242	ONE FOR EACH OPPOSITE BLUE WALL
R2		"KEEP YOUR FRIENDS" SIGN	PC283239	
R3	1	UNISEX RESTROOM SIGN	PC4040	
R4		WOMEN'S RESTROOM SIGN	PC4041	
R5		MEN'S RESTROOM SIGN	PC4042	
R6	1	"EMPLOYEES MUST WASH" SIGN	PC4043	REQUIRED BY SINK FOR CUSTOMER RESTROOM
	PHIC	CS: MERCHANDISING		
		COUNTER MERCHANDISER DISPLAY	PC273249	PRICE STRIPS SOLD SEPARATELY
G2				
G2 G3		HOT HOLD MERCHANDISER DISPLAY	PC273903	PRICE STRIPS SOLD SEPARATELY



2 INTERIOR STOREFRONT LOBBY ELEVATION SCALE: 1/2" = 1'-0"



MUST USE USE ON COUNTERS IF NO SOFFIT AVAILABLE

CHILD STEP - 1'-9" AFF TO BOTTOM OF GRAPHIC MUST USE

SNEEZE GUARD IN FRONT OF MAKELINE SNEEZE GUARD IN FRONT OF MAKELINE SNEEZE GUARD IN FRONT OF MAKELINE

RED FOCAL WALL - 6'-1" TO BOTTOM OF DOMINO SNEEZE GUARD IN FRONT OF DOUGH COUNTER

2'-10" AFF ON CHALK WALL 2'10" AFF ON CHALK WALL EVERY NEW STORE MUST HAVE LOBBY FRAMED ART AND ONE PAN ART PACKAGE. - BOTTOM SHOULD BE 5'-6" FROM FLOOR

5'-1" AFF TO BOTTOM OF BRACKET 4'-6" AFF TO BOTTOM OF BRACKET CHALK WALL

PRODUCTION AREA NEW STORE LAYOUT ONLY - NOT RETROFIT

 S-2" AFF TO BOTTOM OF PANS. EVERY REMODEL MUST HAVE

 EITHER PAN ART OR LOBBY FRAMED PHOTO COLLAGE.

 5-2" AFF TO BOTTOM OF PANS. EVERY NEW STORE MUST

 5-2" AFF TO BOTTOM OF PANS. EVERY NEW STORE MOST HAVE LOBBY FRAMED ART AND ONE PAN ART PACKAGE. 5-2" AFF TO BOTTOM OF PANS. EVERY NEW STORE MUST HAVE LOBBY FRAMED ART AND ONE PAN ART PACKAGE. 5-2" AFF TO BOTTOM OF PANS. EVERY NEW STORE MUST HAVE LOBBY FRAMED ART AND ONE PAN ART PACKAGE. USED IF GLASS DOOR SEPARATES LOBBY FROM DEPODUCTION APED

5'-6" TO CENTER OF BOTTOM ROW FROM FLOOR

5'-6" TO CENTER OF BOTTOM ROW FROM FLOOR

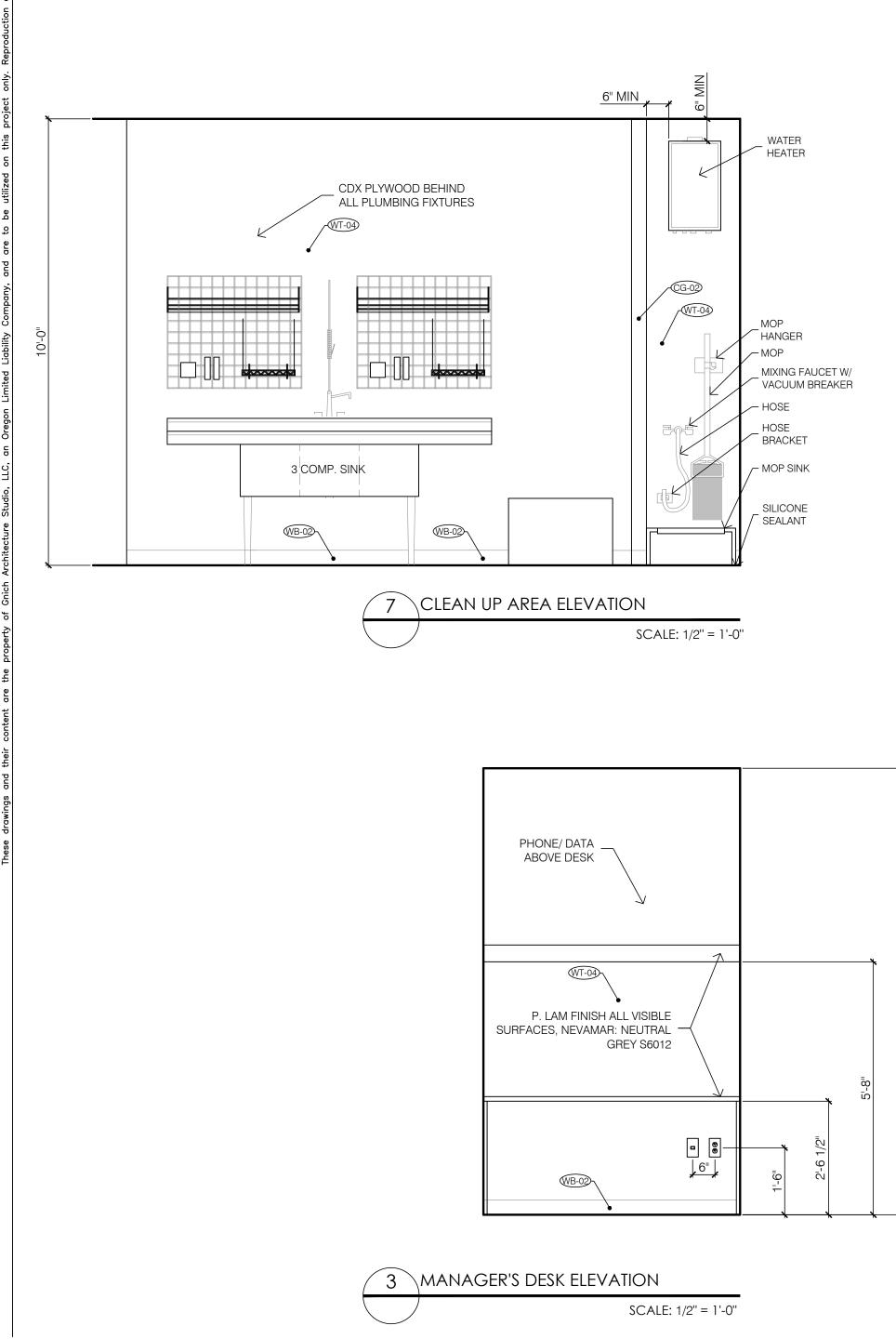
UTILIZED AS A SECOND SIGN IN STORES THAT NEED IT

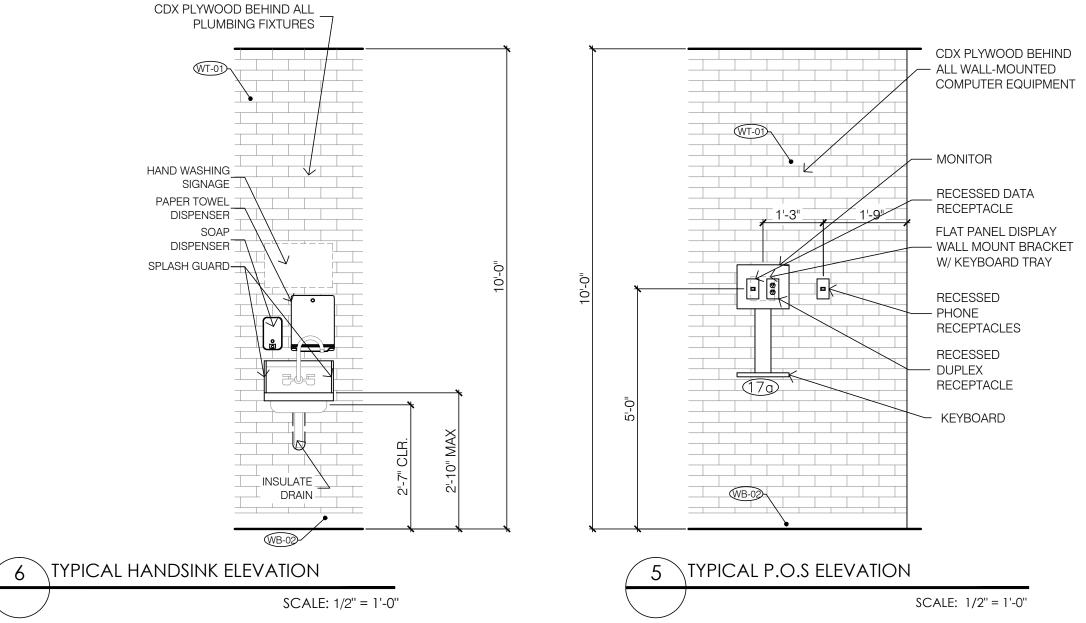
OPTIONAL RESIN BOARD (PC283084) TEXTURED SURFACE VINYL BY MLE

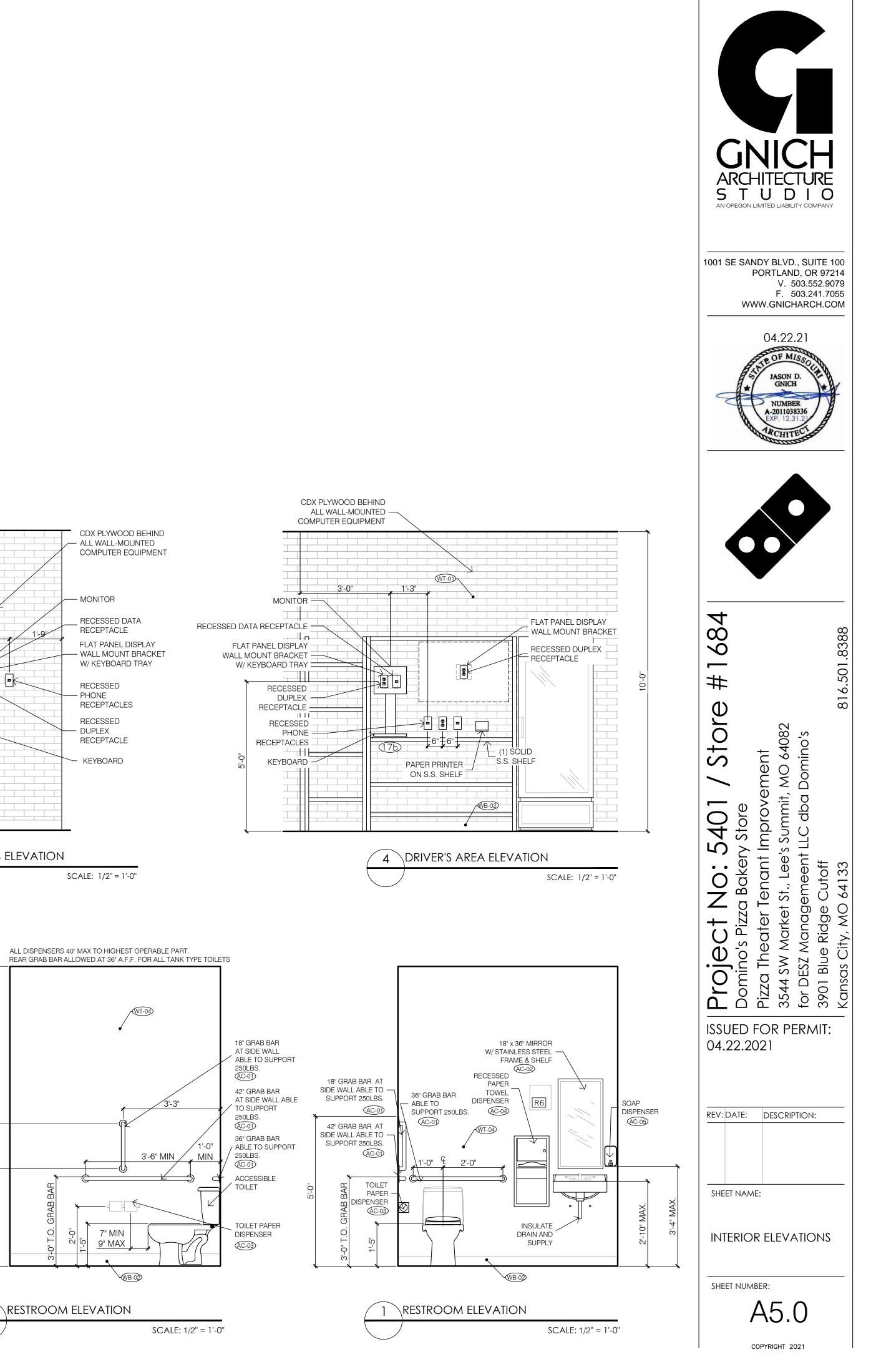
OPTIONAL RESIN BOARD (PC283083)

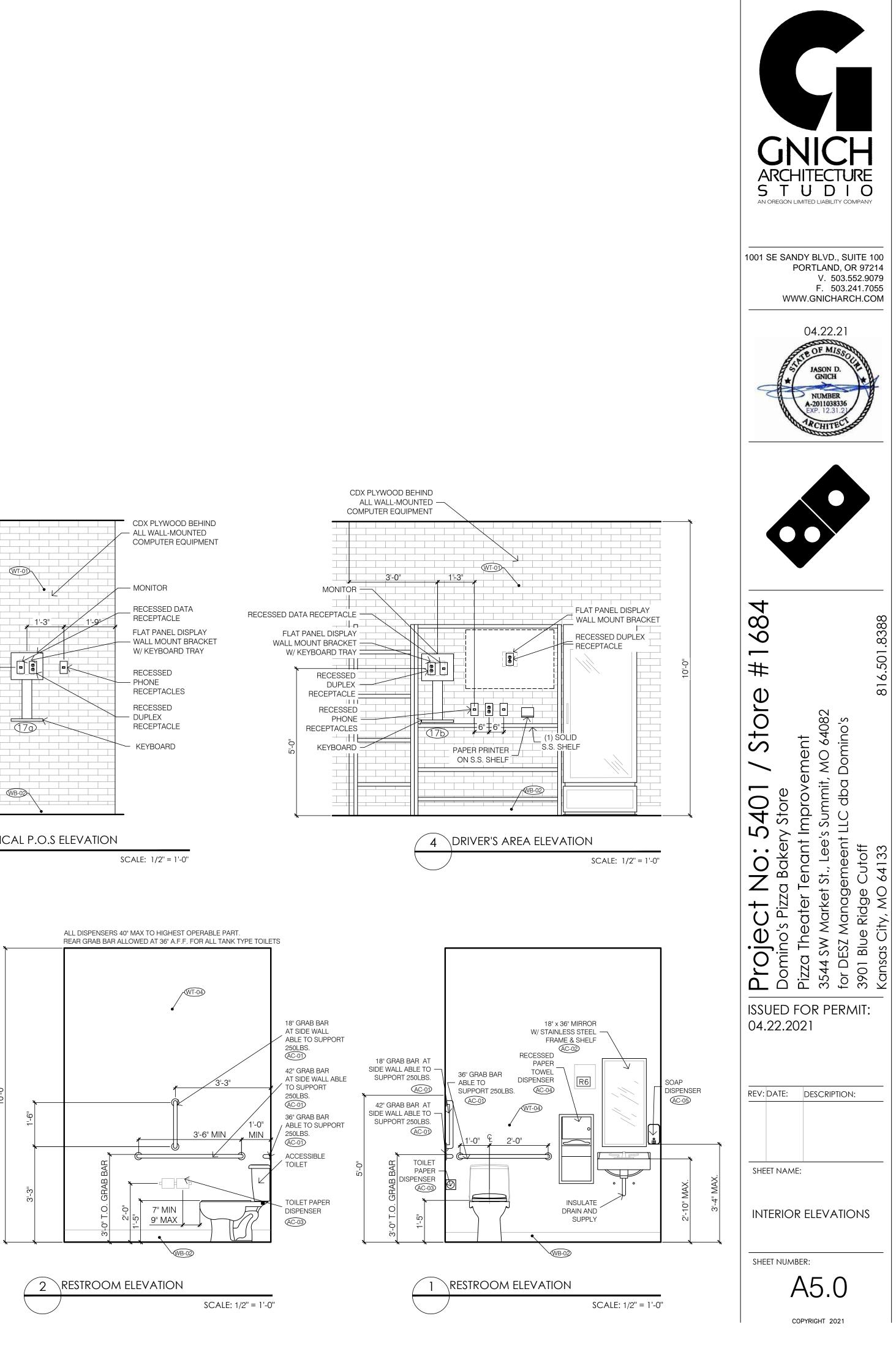
OPTIONAL RESIN BOARD (PC283081)

EVERY PIZZA THEATER STORE MUST ORDER



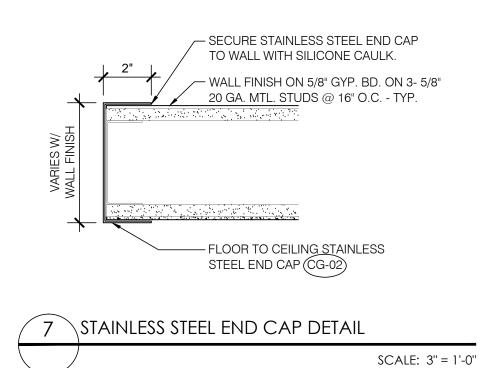


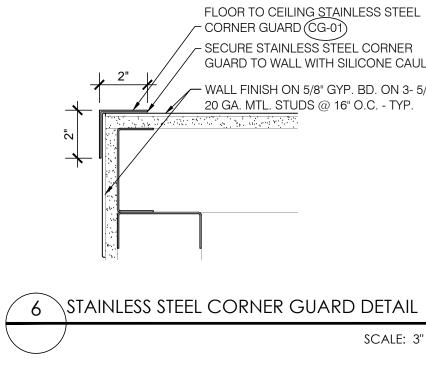


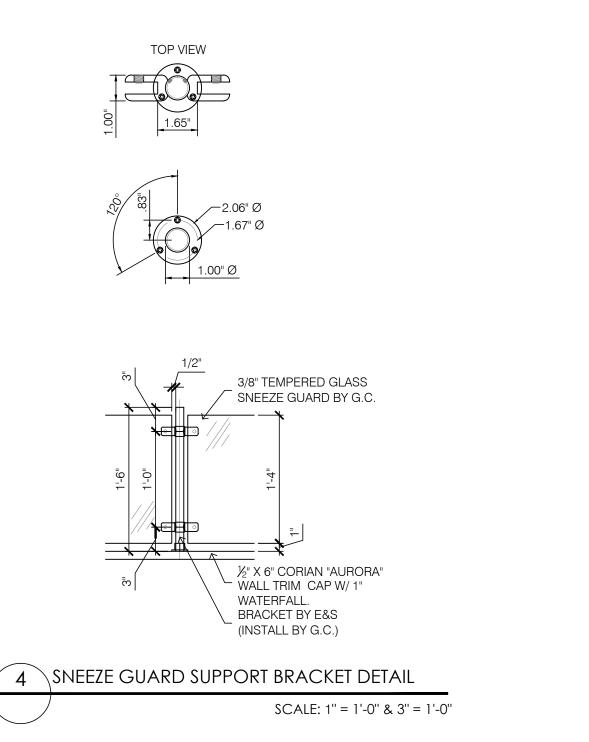


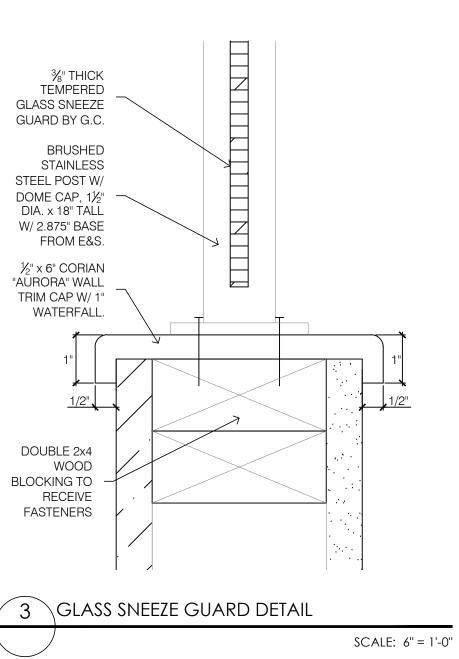
TOILET ACCESSORY LEGEND (BY G.C.)

MARK	MATERIAL	MANUFACTURER	MODEL #	COLOR	FINISH	COMMENT
AC-01	ADA GRAB BAR - 1.25" Ø	BOBRICK	B-5806			SIZE AND LOCATION ON PLAN
AC-02	MIRROR	BOBRICK	B-165 1836			MOUNT @ 40" A.F.F. MAX. TO BOT. OF REFLECTIVE SURFACE
AC-03	TOILET PAPER DISPENSER	BOBRICK	B-265			WALL MOUNT @ 24" A.F.F. MAX. TO CENTER OF ROLL
AC-04	RECESSED PAPER TOWEL DISPENSER	BOBRICK	B-369			WALL MOUNT @ 40" A.F.F. MAX. TO B.O. OF DISPENSER
AC-05	SOAP DISPENSER	BOBRICK	B-2111			WALL MOUNT @ 40" A.F.F. MAX. TO B.O. OF DISPENSER
AC-06	XLERATOR HIGH VELOCITY HAND DRYER	EXCEL DRYER INC.	XL-SB		S.S.	WALL MOUNT (OPTIONAL) SUBSTITUTE FOR AC-04
			7			LEFT HAND, FLOOR MOUNT,
	ACCESSIBLE TOILET-EH	ZUHN	25550	WHITE		FRONT SEAT
(AC-07)						RIGHT HAND, FLOOR MOUNT,
	ACCESSIBLE TOILET-RH	ZURN	25550	WHITE		FELONGATED DOWL, OPEN
	NOTE: FLUSH CON	ITROLS SHALL B	E LOCATI	ED ON THE OPEN	I SIDE (OF WATER CLOSET
						WALL MOUNT, MEETS ADA AND ANSI
(AC-08)	ACCESSIBLE SINK	ZURN	Z5340	WHITE		A117.1 REQUIREMENTS WHEN HUNG 34" A.F.F.



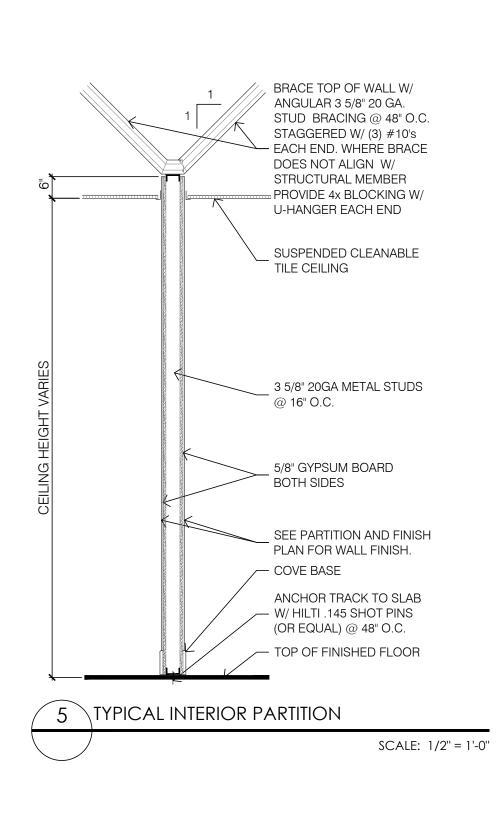


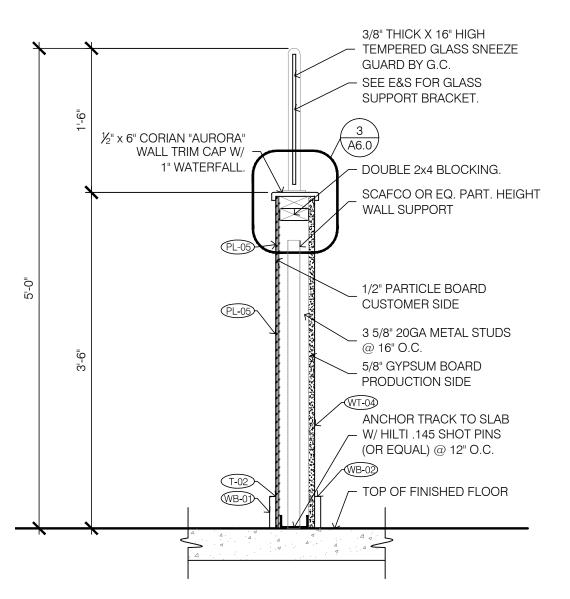




FLOOR TO CEILING STAINLESS STEEL CORNER GUARD (CG-01) - SECURE STAINLESS STEEL CORNER GUARD TO WALL WITH SILICONE CAULK. - WALL FINISH ON 5/8" GYP. BD. ON 3- 5/8" 20 GA. MTL. STUDS @ 16" O.C. - TYP.

SCALE: 3" = 1'-0"

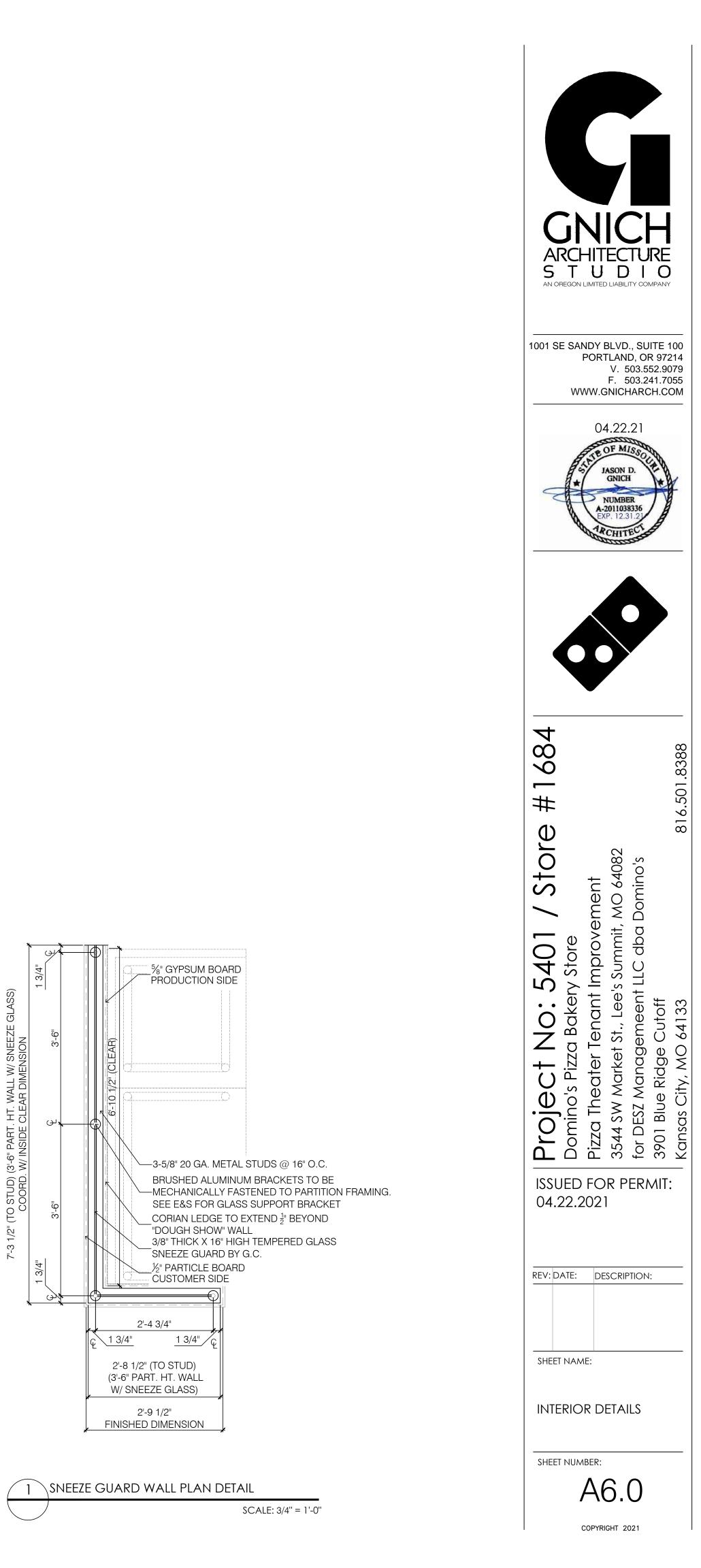




2 PT. HEIGHT DOUGH WALL

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	DRAWINGS.	TRICAL SYSTEM IN ACCORDANCE WITH THE	
	ADOPTED EDITIONS OF THE NATIONAL EL	K INSTALLED SHALL COMPLY WITH THE LATI ECTRIC CODE, STATE OR LOCAL ELECTRICAL ES. WHERE CONFLICTS OCCUR, THE MORE VING JURISDICTION SHALL APPLY.	CODES, AND T
	FURNISHED AND INSTALLED COMPLETE TO		
	DEVICES AND ROUTING OF ALL RACEWAYS	DO NOT SCALE. COORDINATE ACTUAL LOO S WITH ARCHITECT AND ALL TRADES PRIOR	TO ANY ROUGH
	SUBSTANTIALLY ESTABLISHED AND RECOG	GOOD CONDITION. THE MATERIAL SHALL BE NIZED MANUFACTURER'S IS WORK SO THAT IT DOES NOT INTERFERE	
	ALL OTHER TRADES. IT SHALL BE THIS INSTALLED IN A TIMELY MANNER. PLAN TO PREVENT OBSTRUCTIONS, AND KEEP DRAWINGS FOR CONDITIONS AFFECTING T INSTALLED. NOTIFY ARCHITECT IMMEDIATI STRUCTURAL, MECHANICAL OR OTHER FE	CONTRACTOR'S RESPONSIBILITY TO SEE TH AND INSTALL ALL ELECTRICAL WORK IN SU OPENINGS AND PASSAGEWAYS CLEAR. CON HIS WORK AND VERIFY SPACES IN WHICH N ELY OF POSSIBLE CONFLICTS. WHERE INTE ATURES EXIST, OR WHERE JOB CONDITIONS ID ARRANGEMENT OF INDICATED EQUIPMENT,	AT THIS WORK II ICH A MANNER A NSULT ALL CONT WORK WILL BE ERFERENCE WITH I REQUIRE
' .	OR WIRING, CONTRACTOR SHALL MAKE S THIS CONTRACTOR SHALL REVIEW ALL CO HIS BID. HE SHALL INCLUDE ALL WORK SITE VISIT. NO SUBSEQUENT ALLOWANCI	UCH CHANGES WITHOUT EXTRA COST TO O DNTRACT DOCUMENTS AND VISIT THE SITE F IN HIS BID DISCERNIBLE FROM REVIEW OF ES WILL BE MADE FOR LACK OF REASONAE	WNER OR ARCHIT PRIOR TO SUBMIT F DOCUMENTS AI
8.	FOLLOWING: PANELBOARDS, DISCONNECT	PPROVAL EIGHT (8) SETS OF SHOP DRAWIN F SWITCHES, LIGHTING FIXTURES, LAMPS, DE ND ANY OTHER ITEMS REQUESTED BY THE	EVICES AND
		NTIRE ELECTRICAL SYSTEM IN PROPER WOR PROVIDED BY HIM UNDER THIS CONTRACT CEPTANCE BY OWNER.	
	THIS CONTRACTOR SHALL PROVIDE, MAIN ADEQUATE TEMPORARY POWER AND LIGH	TAIN AND REMOVE AFTER CONSTRUCTION IS TING SYSTEM.	COMPLETE, ANI
	ITE/SEIMENS). PROVIDE SCREW-ON ENG	MANUFACTURER, (SQUARE 'D', CUTLER-HAM GRAVED NAMEPLATES FOR ALL DISTRIBUTION	EQUIPMENT.
	EXISTING PANELS WITHIN THE SCOPE OF	TYPED, PANELBOARD DIRECTORIES FOR ALL THIS PROJECT. THE DIRECTORIES SHALL FIELD VERIFICATION WORK AS NECESSARY.	L NEW AND/OR INDICATE THE LO
	FIXTURES SHALL BE INDEPENDENTLY SUF FIXTURES, LAMPS AND LENSES SHALL BE	D COMPLETE WITH LAMPS, HANGERS AND IN PPORTED FROM THE STRUCTURE ABOVE. A E THOROUGHLY CLEANED PRIOR TO FINAL A	LL LIGHTING ACCEPTANCE.
	DEVICES AND COVERPLATES AS DIRECTED HUBBELL, P&S, GENERAL ELECTRIC AND		ACTURER'S ARE
	STRANDED SIZE 8 AND LARGER. ALL FE	PER, 90°C, 600 VOLTS. SOLID SIZE 10 AN EEDERS AND BRANCH CIRCUITS SHALL HAVE ZE WIRE #12 AWG. UNLESS OTHERWISE NOT	E A GREEN CODE
	ALL BLOCK (CMU) WALLS. TYPE MC (M TO MEETING ALL OF THE FOLLOWING CO A. THE LOCAL AUTHORITIES HAVING JU B. THE ARCHITECT AND OWNER MUST C. THE CABLE STRUCTURE AND INSTA CODE REQUIREMENTS. D. THE MC CABLE CONDUCTOR SIZE I DRAWINGS AND NEC. THE MINIMUM	JRISDICTION MUST ALLOW THE USE OF MC APPROVE OF THE USE OF MC CABLE. LLATION ARE IN ACCORDANCE WITH UL, NEW MEETS THE REQUIREMENTS OF THE CONSTR WIRE SIZE SHALL BE #12 AWG., THHN OR	PROJECT SUBJ CABLE. C AND LOCAL RUCTION THWN.
	CIRCUITS.	NEC SIZED GREEN GRÖUND CONDUCTOR F WINGS) SHALL REFLECT THE USE AND ROU	
	THIS CONTRACTOR SHALL COORDINATE A	N MAKE FINAL CONNECTIONS FOR MECHANI DTECTING MECHANICAL EQUIPMENT PER EQU	
	MANUFACTURER'S RECOMMENDATIONS.		
		INSTALL ALL ELECTRICAL WIRING, RACEWAYS	
	JUNCTION BOXES, MOTOR STARTERS, DIS	INSTALL ALL ELECTRICAL WIRING, RACEWAYS CONNECT AND CONTROLS FOR EQUIPMENT WISE. VERIFY EQUIPMENT REQUIREMENTS	FURNISHED UND
9.	JUNCTION BOXES, MOTOR STARTERS, DIS OTHER SECTIONS, UNLESS NOTED OTHER MANUFACTURER PRIOR TO BID. THIS CONTRACTOR SHALL NOT INTERRUP NOTED OTHERWISE ON PLANS. ANY DAM	CONNECT AND CONTROLS FOR EQUIPMENT	FURNISHED UND WITH EQUIPMENT EQUIPMENT UNLE ENT SHALL BE
9.	JUNCTION BOXES, MOTOR STARTERS, DIS OTHER SECTIONS, UNLESS NOTED OTHER MANUFACTURER PRIOR TO BID. THIS CONTRACTOR SHALL NOT INTERRUP NOTED OTHERWISE ON PLANS. ANY DAM RESTORED TO LIKE NEW CONDITION AT M ALL PENETRATIONS OF FIRE-RESISTIVE F AND INSTALLATION THAT CONFORM TO UI 'THROUGH-PENETRATION FIRE STOP SYST SHOP DRAWING DETAILS, FURNISHED BY	CONNECT AND CONTROLS FOR EQUIPMENT WISE. VERIFY EQUIPMENT REQUIREMENTS MAGED OR DISRUPTED CIRCUITS OR EQUIPM NO ADDITIONAL COST TO OWNER OR ARCHIT FLOORS OR SHAFT WALLS SHALL BE PROTEC NDERWRITER'S LABORATORIES LISTINGS FOR THE MANUFACTURER OF THE FIRE STOP M HE UL. THE DRAWINGS SHALL BE SPECIFIC	FURNISHED UND WITH EQUIPMENT EQUIPMENT UNLE ENT SHALL BE ECT. CTED BY MATERI O THE ARCHITEC ATERIAL, WHICH
9. 20.	JUNCTION BOXES, MOTOR STARTERS, DIS OTHER SECTIONS, UNLESS NOTED OTHER MANUFACTURER PRIOR TO BID. THIS CONTRACTOR SHALL NOT INTERRUP NOTED OTHERWISE ON PLANS. ANY DAM RESTORED TO LIKE NEW CONDITION AT M ALL PENETRATIONS OF FIRE-RESISTIVE F AND INSTALLATION THAT CONFORM TO UI THROUGH-PENETRATION FIRE STOP SYST SHOP DRAWING DETAILS, FURNISHED BY SHOW COMPLETE CONFORMANCE WITH TH PENETRATIONS, WITH ALL VARIABLES DEFI THE FINAL DETERMINATION OF EXIT LIGHT RESPONSIBILITY OF THE ARCHITECT. THE ALL EXIT AND EMERGENCY LIGHTING WITH	CONNECT AND CONTROLS FOR EQUIPMENT WISE. VERIFY EQUIPMENT REQUIREMENTS AGED OR DISRUPTED CIRCUITS OR EQUIPM NO ADDITIONAL COST TO OWNER OR ARCHIT FLOORS OR SHAFT WALLS SHALL BE PROTEC NDERWRITER'S LABORATORIES LISTINGS FOR TEMS.' THE CONTRACTOR SHALL SUBMIT TO THE MANUFACTURER OF THE FIRE STOP M HE UL. THE DRAWINGS SHALL BE SPECIFIC INED. TING LOCATIONS AND EGRESS PATHWAYS SH E CONTRACTOR SHALL CONFIRM AND VERIFY H THE ARCHITECT PRIOR TO ANY INSTALLAT	FURNISHED UND WITH EQUIPMENT EQUIPMENT UNLE ENT SHALL BE ECT. CTED BY MATERI O THE ARCHITEC ATERIAL, WHICH FOR EACH FOR EACH HALL BE THE Y THE LOCATIONS ION.
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9. 1. 2. AFFGST	JUNCTION BOXES, MOTOR STARTERS, DIS OTHER SECTIONS, UNLESS NOTED OTHER MANUFACTURER PRIOR TO BID. THIS CONTRACTOR SHALL NOT INTERRUP NOTED OTHERWISE ON PLANS. ANY DAM RESTORED TO LIKE NEW CONDITION AT N ALL PENETRATIONS OF FIRE-RESISTIVE F AND INSTALLATION THAT CONFORM TO UN THROUGH-PENETRATION FIRE-RESISTIVE F AND INSTALLATION THAT CONFORMANCE WITH TH PENETRATIONS, WITH ALL VARABLES DEF THE FINAL DETERMINATION OF EXIT LIGHT RESPONSIBILITY OF THE ARCHITECT. THE ALL EXIT AND EMERGENCY LIGHTING WITH THE ELECTRICAL CONTRACTOR SHALL CO THE SUPPLIER AND MAKE ALL FINAL FLE BEREVIATION MAKE ALL FINAL FLE BURGENTIAL DETERMINATION OF EXIT LIGHT RESPONSIBILITY OF THE ARCHITECT. THE ABOVE FINISHED FLOOR ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AUTOMATIC TRANSFER SWITCH ELECTRIC DRINKING FOUNTAIN EXHAUST FAN GROUND FAULT INTERRUPTER GROUND ING/BONDING CONDUCTOR MOTOR CONTROL CENTER NOT IN CONTRACT NIGHT LIGHT PANEL SERVICE ENTRANCE SECTION SWITCHBOARD UNLESS NOTED OTHERWISE WEATHERPROOF AR CONDITIONING UNIT EVAPORATIVE COOLER FURNISHED BY OTHERS PANELES NOTED OTHERWISE WEATHERPROOF AR CONDITIONING UNIT EVAPORATIVE COOLER FIRE ALARM CONTROL PANEL FURNISHED BY OTHERS PANEL INDICATES EXISTING LOAD AND BE LOADS MAY HAVE BEEN ESTIMATE INDICATES NEW LOAD HAS BEEN INDICATES NEW LOAD AND NEW INDICATES ISOLATED GROUNDED INDICATES PROVIDE LOCK-CLOSE NIDICATES PROVIDE LOCK-CLOSE NIDICATES PROVIDE LOCK-CLOSE NIDICATES CIRCUIT THRU LIGHTIN INDICATES CIRCUIT THRU PHOTO AS REQUIRED. INDICATES CIRCUIT THRU PHOTO AS REQUIRED. INDICATES CIRCUIT THRU PHOTO AS REQUIRED. INDICATES CIRCUIT THRU PHOTO AS REQUIRED. INDICATES CONTINUOUS LOAD @	CONNECT AND CONTROLS FOR ÉQUIPMENT WISE. VERIFY EQUIPMENT REQUIREMENTS T OR REMOVE ANY EXISTING CIRCUITS OR JAGED OR DISRUPTED CIRCUITS OR EQUIPM YO ADDITIONAL COST TO OWNER OR ARCHIT TLOORS OR SHAFT WALLS SHALL BE PROTEIN NDDERWRITES'S LABORATORISS LISTINGS FOR THE MANUFACTURER OF THE FIRE STOP M 4E UL. THE DRAWINGS SHALL BE SPECIFIC INED. TING LOCATIONS AND EGRESS PATHWAYS SH E CONTRACTOR SHALL CONTRIVE JUNCTION BC EXIBLE CONNECTIONS TO SAME. DEVICE MITCE PRIOR TO ANY INSTALLAT ORDINATE SYSTEM FURNITURE JUNCTION BC EXIBLE CONNECTIONS TO SAME. DEVICE UNC. RECEPTACLES TELEPHONE OUTLETS DATA OUTLETS ABOVE COUNTER RECEPTACLES, TEL AND DATA OUTLETS VERIFY WITH AR PRIOR TO ROUGH IN. SWITCHES DIMMERS OTHER CONTROLS TIME SWITCHES RECEPTACLES TELEPHONE OLITESS ABOVE CONTROLS TIME SWITCHES RECEPTACLES TELEPHONE OLITES STATION FA VISUAL DEVICES FMEDOLS SCHEDIN REAKER TO REMAIN, NO REVISION. EXISTING ED. BE SUITABLE AND U.L. LISTED FOR ADDED TO EXISTING BREAKER. HEEN REMOVED, BREAKER TO BECOME SPAR BREAKER ADDED TO EXISTING BUSSED SPAN REAKER HAS BEEN REMOVED AND REPLACE OAD. DEVICE ON THE BREAKER. DEVICE ON THE BREAKER. CIRCUIT. G CONTACTOR. SEE WIRING DIAGRAM. ELECTRIC CELL. PROVIDE 20A. PHOTO COMPANY 125%	FURNISHED UND WITH EQUIPMENT UNLE EQUIPMENT UNLE ENT SHALL BE TECT. CTED BY MATERIA O THE ARCHITEC ATERIAL, WHICH FOR EACH HALL BE THE THE LOCATIONS WI IEIGHT THE LOCATIONS WI IEIGHT THE ACATIONS WI IEIGHT THE +18" +18" +18" +18" +48" +48" +48" +48" +48" +48" +48" +4

ELECTRICAL SYMBOLS

	NOTE: SOME SYMBOLS IN THIS LIST MAY NOT BE USED FOR TH
°O _{L1}	CEILING MOUNTED LIGHT FIXTURE. LOWER CASE LETTER, IF USI SEE LIGHT FIXTURE SCHEDULE FOR DETAILS.
م م ¹¹ ط ل#	WALL MOUNTED LIGHT FIXTURE. LOWER CASE LETTER, IF USED, SEE LIGHT FIXTURE SCHEDULE FOR DETAILS. WALL WASHER LIGHT FIXTURE. ARROW INDICATES GENERAL DIRE INDICATES SWITCHING. L# DESIGNATES TYPE. SEE LIGHT FIXTURE
	FLUORESCENT LIGHT FIXTURE. LOWER CASE LETTER, IF USED, I SEE LIGHT FIXTURE SCHEDULE FOR DETAILS.
	TRACK LIGHTING SYSTEM. TRIANGLES DENOTE TRACK LIGHT FIXT INDICATES SWITCHING. L# DESIGNATES TYPE. SEE LIGHT FIXTURE
₽	POLE MOUNTED LIGHT FIXTURE. L# DESIGNATES TYPE. MULTIPLE LIGHT FIXTURE SCHEDULE FOR DETAIL. SEE POLE MOUNTING DE SPOT OR FLOOD LIGHT. L# DESIGNATES TYPE. SEE LIGHT FIXTUR
	FLUORESCENT LIGHT FIXTURE WITH (2) LAMPS SERVED BY A FU "NL" INDICATES FIXTURE SHALL BE CONNECTED TO UNSWITCHED INDICATES SWITCHING. L# DISIGNATES TYPE. SEE LIGHT FIXTURE
8	EXIT LIGHT FIXTURE. MOUNTING NOT SHOWN ON DRAWINGS. SHA PROVIDE ARROWS ON FACE(S) OF FIXTURE AS SHOWN ON PLAN JUNCTION BOX IN ACCESSIBLE LOCATION.
e O	FLEXIBLE CONDUIT EQUIPMENT CONNECTION. PROVIDE GROUND E WITH THE NEC. PROVIDE WEATHERPROOF FLEXIBLE CONDUIT FOR
\$	TOGGLE SWITCH. MOUNT AT 48" ABOVE FINISHED FLOOR U.N.O.
\$ ₂	TWO POLE TOGGLE SWITCH. MOUNT AT 48" ABOVE FINISHED FLO
\$ ₃	THREE WAY TOGGLE SWITCH. MOUNT AT 48" ABOVE FINISHED FL
\$₄ \$ _T	FOUR WAY TOGGLE SWITCH. MOUNT AT 48" ABOVE FINISHED FLC MOTOR RATED SWITCH, VOLTAGE AND PHASE RATED WITH THERM 3R WHEN LOCATED OUTSIDE. TIMECLOCK. 3-POLE SINGLE THROUGH, 24-HR ASTRONOMIC DIA
	DEVICE, RESERVE POWER, AND NEMA 1 ENCLOSURE FOR INDOO WHEN LOCATED OUTSIDE. EQUAL TO TORK #7300-ZL U.N.O.
PC	PHOTOCELL SWITCH. MOUNT ABOVE ROOF AND AIM NORTH. EQU. DIMMER SWITCH. MOUNT AT 48" ABOVE FINISHED FLOOR U.N.O.
D Ø	1=1000 WATTS, 2=2000 WATTS, NONE =600 WATTS. DO NOT R DUPLEX RECEPTACLE. MOUNT AT 18" ABOVE FINISHED FLOOR U
¢	DUPLEX RECEPTACLE. MOUNT 6" ABOVE SPLASH OF COUNTER T
0	SWITCH RATED DUPLEX RECEPTACLE. TIE STRAP REMOVED FOR
⊕	CEILING MOUNTED DUPLEX RECEPTACLE
₩	QUAD RECEPTACLE. TWO DUPLEX RECEPTACLES WITH ONE DEVIC FLOOR U.N.O. QUAD RECEPTACLE. TWO DUPLEX RECEPTACLES WITH ONE DEVIC
	OF COUNTER TOP. VERIFY EXACT DIMENSIONS WITH ARCHITECT.
	CIRCUIT BREAKER. AMPERAGE/POLES, AS INDICATED. SWITCH WITH FUSES. AMPERAGE/POLES, AND FUSE SIZE AND
	FUSED PULL-OUT SWITCH. AMPERAGE/POLES, AND FUSE SIZE
	FUSE. SIZE AND TYPE AS INDICATED. ALL FUSE TYPES NOTED
	TRANSFORMER. DRY TYPE, PAD MOUNT, WITH KVA, PRI. & S RATING AS NOTED. 150°C RISE U.N.O. PROVIDE SEPARATELY NEC 250-26. CONDUCTOR SIZE AS NOTED. SERVICE ENTRANCE SECTION. SEE ONE-LINE DIAGRAM.
0) I () 0) II () 1)	FLUSH FLOOR OUTLET WITH DEVICE SHOWN. PROVIDE WITH BR. IN CARPETED AREAS. TELEPHONE AND DATA OUTLETS SHALL H. INTO ACCESSIBLE CEILING SPACE. PROVIDE CONDUIT BUSHINGS
٥	SPECIAL PURPOSE RECEPTACLE WITH NEMA CONFIGURATION NOT
	MULTI OUTLET ASSEMBLY (MOA). MOUNT AT 6" ABOVE COUNTER OR AT 12", U.N.O.
RECEPTAC GF IG V CC	CLE SUBSCRIPTS — PROVIDE THE FOLLOWING DEVICE FEATURES W GROUND FAULT CIRCUIT INTERRUPTER ISOLATED GROUND. PROVIDE SEPERATE GROUND CONDUCTOR FR VERIFY NEMA CONFIGURATION WITH EQUIPMENT TO BE SERVED F CORD AND CAP. PROVIDE 6' CORD AND CAP FOR THE EQUIPME
$\nabla \not a$	DATA OUTLET. SLASH LINE INDICATES MOUNTING IS ABOVE COU UP INTO ACCESSIBLE CEILING SPACE U.N.O. PROVIDE CONDUIT
▼ \$	TELEPHONE OUTLET. MOUNT AT 18" ABOVE FINISH FLOOR U.N.O PROVIDE 3/4"C. WITH PULL STRING UP INTO ACCESSIBLE CEILIN CEILING. "P" INDICATES PAY PHONE. PROVIDE #6 CU GROUND F
V	DATA AND TELEPHONE OUTLETS COMBINED IN ONE BOX. PROVID CEILING SPACE U.N.O. PROVIDE CONDUIT BUSHING ABOVE CEIL
\$	SPEAKER. PROVIDE SPEAKER, BACKBOX, AND GRILL. VERIFY MOL AND PLANS.
	$2' \times 2' \times 3/4$ " Thick fire rated telephone mounting board. Solid cu ground per Nec 800-40.
<u> </u>	CIRCUITS IN CONCEALED CONDUIT U.N.O. NO DISTINCTION IS MA (
.	PANELBOARD. SURFACE OR FLUSH MOUNTED AS NOTED IN PAP
Q	MOTOR. SIZE AND RATING AS SHOWN. "EF" INDICATES EXHAUS
	PREWIRED MOTOR CONTROLLER FURNISHED WITH EQUIPMENT. MAGNETIC MOTOR STARTER. SIZE, VOLTAGE, PHASE, AND NUMBE N.O./N.C. FIELD CONVERTIBLE AUXILIARY CONTACT. SHALL BE S
8	NEMA 3R WHEN LOCATED OUTSIDE. COMBINATION DISCONNECT SWITCH AND MOTOR STARTER WITH E
	MOTOR STARTER SYMBOLS.
	HEAVY DUTY DISCONNECT SWITCH. PROVIDE AS NOTED: AMPER/ FUSE SIZE AND DESIGNATION. NF = NON-FUSIBLE
모 🗹	TELEVISION OUTLET. SLASH LINE INDICATES MOUNTING IS ABOVI INTO ACCESSIBLE CEILING SPACE U.N.O. PROVIDE CONDUIT BUS

NOTE: SOME SYMBOLS IN THIS LIST MAY NOT BE USED FOR THIS PROJECT.

USED, INDICATES SWITCHING. L# DESIGNATES TYPE.

INDICATES SWITCHING. L# DESIGNATES TYPE. IRECTION OF WASH. LOWER CASE LETTER, IF USED, RE SCHEDULE FOR DETAILS.

INDICATES SWITCHING. L# DESIGNATES TYPE. TIXTURES. LOWER CASE LETTER, IF USED,

RE SCHEDULE FOR DETAILS. LE LUMINARIES AS SHOWN ON PLANS. SEE DETAIL FOR POLE INFORMATION.

TURE SCHEDULE FOR DETAILS. FULL LIGHT OUTPUT EMERGENCY BALLAST.

ED CIRCUIT. LOWER CASE LETTER, IF USED, RE SCHEDULE FOR DETAILS.

SHADED PORTION INDICATES FACE OF SIGN. LANS. SEE FIXTURE SCHEDULE FOR DETAILS.

D BUSHING AND GROUND CONDUCTOR IN ACCORDANCE FOR EQUIPMENT LOCATED OUTSIDE.

. 20 A. 120 V. OR 277 V. AS REQUIRED. FLOOR U.N.O. 20 A. 120 V. OR 277 V. AS REQUIRED. FLOOR U.N.O. 20 A. 120 V. OR 277 V. AS REQUIRED.

FLOOR U.N.O. RMAL OVERLOAD PROTECTION. NEMA

DIAL WITH DAY OMITTING DOORS - NEMA 3R ENCLOSURE

QUAL TO TORK #2100. 0. SUPERSCRIPT NUMBER INDICATES: REMOVE COOLING FINS. U.N.O.

TOP. VERIFY EXACT DIMENSIONS WITH ARCHITECT. "CONSTANT" AND SWITCHED LEG CONTROL WIRING.

VICE PLATE. MOUNT AT 18" ABOVE FINISHED

VICE PLATE. MOUNT AT 6" ABOVE SPLASH

TYPE AS INDICATED.

AND TYPE AS INDICATED. ARE BUSMAN DESIGNATIONS U.N.O.

SEC. VOLTAGE, MIN. IMPEDANCE, AND "K" Y DERIVED SOURCE GROUNDING PER

BRASS DEVICE PLATE AND CARPET FLANGE, HAVE MIN. 1"C. WITH PULL STRING STUBBED UP

GS ABOVE CEILING. OTED, ie; 6-50, 15-20, ETC.

ER SPLASH WHERE LOCATED BEHIND COUNTER,

WHERE NOTED:

FROM PANELBOARD WITHOUT ANY SPLICE. PRIOR TO ROUGH-IN. MENT TO MATCH RECEPTACLE TYPE AND AMPERAGE.

OUNTER. PROVIDE 3/4"C. WITH PULL STRING T BUSHING ABOVE CEILING.

1.0. SLASH LINE INDICATES MOUNTING IS ABOVE COUNTER. LING SPACE U.N.O. PROVIDE CONDUIT BUSHING ABOVE D PER NEC 800-40.

VIDE (2) 3/4"C. WITH PULL STRING UP INTO ACCESSIBLE NOUNTING TYPE AND LOCATION WITH SPECIFICATIONS

MOUNT AT 6" BELOW CEILING. PROVIDE #6

MADE FOR UNDERGROUND OR OVERHEAD CONDUITS.

UUTORS, WHERE NO HACHURES ARE SHOWN PROVIDE IN CONDUCTORS ARE LARGER THAN #12, PROVIDE ISOLATED GROUND CONDUCTORS ARE NOT SHOWN. D-95. PROVIDE ISOLATED GROUND FOR IG RECIPTACLES

ANEL SCHEDULE. AUST FAN.

HER OF POLES AS REQUIRED. FURNISHED WITH (1) E SINGLE SPEED NON-REVERSING U.N.O. PROVIDE

ENCLOSURE. SEE DISCONNECT SWITCH AND MAGNETIC

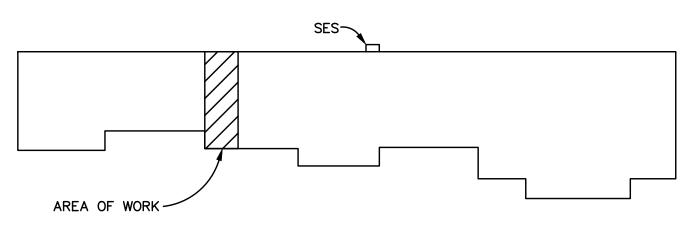
RAGE/VOLTAGE/NO. OF POLES/WEATHERPROOF

TELEVISION OUTLET. SLASH LINE INDICATES MOUNTING IS ABOVE COUNTER. PROVIDE 3/4"C. WITH PULL STRING INTO ACCESSIBLE CEILING SPACE U.N.O. PROVIDE CONDUIT BUSHING ABOVE CEILING.

	FAULT CURRENT SCHEDULE																	
DEVICE	AIC	L-N		UTILITY			FED	FROM				FEEL)ER					
	RATING	VOLTS	FAULT	X	R	DEVICE	FAULT	X	R	SIZE	X / 1000'	R / 1000'	LENGTH	X	R			
SES	42,000	120V	42,000	0.002802	0.0005603					(2)#3/0	0.039	0.023		0	0			
A	10,000	120V	5,841	0.0117	0.01688	SES	42,000	0.002802	0.0005603	# 3/0	0.042	0.077	212'	0.0089	0.0163			
В	10,000	120V	5,377	0.01225	0.01865	A	5,841	0.0117	0.01688	# 1	0.046	0.15	12'	0.0005	0.0018			

			VOL.	TS 208	Y/12	OV 3P	4W AIC 10.000				
MOUNTING	FLUSH			AMPS	•		MAIN BKR MLO				
FED FROM	SES		NEU	TRAL 1	00%		LUGS STANDARD				
NOTE	EXISTING										
скт скт						СКТ			KVA LOAD		
# BKR	CIRCUIT DESCRIPTION	A	В	C	#	BKR	CIRCUIT DESCRIPTION	A	В	С	
1 20/1	K24 60" HEAT LAMP GFCI	1.26		ļ	2	20/1	BLDG.SIGN.	1.2	1		
3 20/1	K24 60" HEAT LAMP GFCI		1.26	1.00	4	-/1	SPACE	Ļ	0	0 470	
5 20/1 7 20/1	K24 60" HEAT LAMP GFCI MISC. W/H & PUMP	0.6	ł	1.26	6	20/2	AHU-1(E) EXISTING	0.432	ł	0.432	
9 20/1	DINING RM REC. GFCI		0.18	ł		20/3	CU-1(E) EXISTING	0.702	1.59	ł	
11 20/1	SMOKE DETECTOR (1)(2)	Ī	İ	0.15	12			Î	1	1.59	
13 20/1	K10 MAKELINE LCP GFCI	1.03		[14			1.59			
15 -/1	SPACE		0			20/1	WALK-IN COOLER HEAT TAPE & LIGHTS	-	0.72		
17 20/1 19 30/2	MISC. SHOW WINDOW LTG. 208V DRYER	2.88	ł	1.2	18 20	30/2	K27B WALK-IN COOLER CONDENSING UNI	 1.89	}	1.89	
21		2.00	2.88	ł	22	20/1	K27A EVAP UNIT	1.03	0.24	1	
23 20/1	CLOTHES WASHER GFCI	İ	1	1.5	24	20/1	MAKELINE REC. GFCI	Ì	1	0.72	
25 20/1	K20 1- DOOR VISI-COOL GFCI	0.9		[26	100/3	PANEL B	7.08			
27 20/1	CUST AREA LIGHTING		0.166		28				7		
29 20/1	PROD AREA EF-1, LIGHTING			0.908	30					9.51	
							TOTAL CONNECTED KVA BY PHASE	18.9	14	19.2	
							TOTAL CONNECTED AMPS BY PHASE	157	117	160	
	CONN. KV	A CALC. I	(VA				CONN. KVA CALC. K	VA			
	LIGHTING 0.974	1.22	(125%)				CONTINUOUS 1.2 1.5	(125%)			
	LARGEST MOTOR 4.07	5.09	(125%)				HEATING 0 0	(100%)			
	OTHER MOTORS 18.7	18.7	(100%)				NONCONTINUOUS 0.75 0.75	(100%)			
	RECEPTACLES 19.4 KITCHEN 0	14.7 0	(50%>10 (100%)				KITCHEN EQUIP6.974.53NONCOIN / DIVERSE00	(65%) (N/A)			
		U	(100%)				TOTAL KVA 52.1 46.5	<u></u> v.v			
					DA		THREE PHASE AMPS 129				

3												
OOM				VOLT	S 208	(/12	0V 3P 4	4W	AIC 10,000			
IOUNTING	FLUSH			BUS	AMPS	125			MAIN BKR MLO			
ED FROM	A			NEUT	RAL 10)0%			LUGS STANDARD			
IOTE	NEW											
СКТ			ĸ	VA LOA	ND	СКТ	СКТ				KVA LO	AD
BKR	CIRCUIT DESCRIPTION		Α	В	С	#	BKR	CIRCUIT DESCRIPT	10N	A	В	С
20/1	K12 BOFI CONVEYOR OVEN	[0	0.72			2	20/1		OR OVEN	0.72		
	SHUNT TRIP	-		0		4	-/1		-	ļ	0	
		. .	n 10		0			· · · · · · · · · · · · · · · · · · ·	С.		}	1.2
	•	ľ	0.10	0.6							6	
	PIZZA TRACKER TV GFCI				0.6			MAN OFF REC.		ł	ľ	0.36
20/1	DRY STOR&CAR TOP REC. GF	CI [0	0.72					MAN OFF REC.		0.36	1	1 1
				0.6					FCI	ļ	0.6	
		. .			0.18					1054	•	1.08
		1	0.30	0.18						0.54	1 66	} }
	•	// ·		0.10	0.18					ł	1.00	1.66
20/1	P.O.S. REC. GFCI	ļ.	0.6						R GFCI	0.6	Ì	
20/1	P.O.S. REC. GFCI	I		0.6				MAKELINE MONITO	r gfci	I	0.3	
-/1	•				0		30/2	CU-2				1.98
-/1	1		0	0.10						1.98	1.00	
	1	-		0.10	0					ł	11.90	1.98
	EFH-1	l i	0.305		, C		40/3	TVSS		0	1	
l í		İ		0.305		40				ľ	0	1 1
					0.305	42						0
								TOTAL CONNECTED	D KVA BY PHASE	7.08	7	9.51
								TOTAL CONNECTED	D AMPS BY PHASE	59.8	59.1	79.2
	C	ONN. KVA CA	ALC. K	VA					CONN. KVA CALC. KVA	\		
		• •		• •				CONTINUOUS		•		
								HEATING				
					`							
								-				
		•		()				TOTAL KVA	23.6 24.6	<u>.</u> ,		
						BA	LANCED	THREE PHASE AMP	S 68.2			
	OUNTING ED FROM OTE CKT BKR 20/1 -/1 20/1 20/1 20/1 20/1 20/1 20/1 20/1 20	OUNTING FLUSH ED FROM A OTE NEW CKT BKR CIRCUIT DESCRIPTION 20/1 K12 BOFI CONVEYOR OVEN -/1 SHUNT TRIP -/1 SPACE 20/1 RR REC. GFCI 20/1 GPS TV GFCI 20/1 PIZZA TRACKER TV GFCI 20/1 DRY STOR&CAR TOP REC. GFCI 20/1 DRY STOR&CAR TOP REC. GFCI 20/1 DRY STOR&CAR TOP REC. GFCI 20/1 DOMINO'S LOGO REC. GFCI 20/1 DOMINO'S LOGO REC. GFCI 20/1 DOMINO'S LOGO REC. GFCI 20/1 REC&DATA PRINTER REC. GFCI 20/1 P.O.S. REC. GFCI 20/1 P.O.S. REC. GFCI 20/1 P.O.S. REC. GFCI -/1 ORDER STA GFCI 20/1 ORDER STA REC. GFCI 20/1 ORDER STA REC. GFCI -/1 ORDER STA REC. GFCI 20/1 ORDER STA REC. GFCI 20/1 ORDER STA REC. GFCI 20/1 ORDER STA REC. GFCI	OUNTING FLUSH ED FROM A OTE NEW	OUNTING FLUSH ED FROM A OTE NEW CKT BKR 20/1 K12 BOFI CONVEYOR OVEN 0.72 -/1 SHUNT TRIP 0.18 20/1 RR REC. GFCI 0.18 20/1 GPS TV GFCI 0.18 20/1 PIZZA TRACKER TV GFCI 0.72 20/1 DRY STOR&CAR TOP REC. GFCI 0.72 20/1 DRY STOR&CAR TOP REC. GFCI 0.72 20/1 DRY STOR&CAR TOP REC. GFCI 0.72 20/1 DOMINO'S LOGO REC. GFCI 0.72 20/1 DOMINO'S LOGO REC. GFCI 0.36 20/1 RCC&DATA PRINTER REC. GFCI 0.36 20/1 P.O.S. REC. GFCI 0.6 20/1 P.O.S. REC. GFCI 0 20/1 ORDER STA GECI 0 <	OUNTING FLUSH BUS ED FROM A NEW OTE NEW CKT EXECUT DESCRIPTION A B 20/1 K12 BOFI CONVEYOR OVEN 0.72 0 -/1 SHUNT TRIP 0 0 20/1 RR REC. GFCI 0.18 0.66 20/1 GPS TV GFCI 0.6 0.6 20/1 PIZZA TRACKER TV GFCI 0.72 0.6 20/1 DOTREC. GFCI 0.72 0.6 20/1 PIZZA TRACKER TV GFCI 0.6 0.6 20/1 DOTE MON GFCI 0.6 0.6 20/1 DOMINO'S LOGO REC. GFCI 0.36 0.6 20/1 ROOF RECEPTACLE GFCI 0.36 0.18 20/1 P.O.S. REC. GFCI 0 0.6 0.6 20/1 P.O.S. REC. GFCI 0 0 0.18 20/1 P.O.S. REC. GFCI 0 0 0.305 20/1 ORDER STA GFCI 0 0 0 0.305 <	BUS AMPS ED FROM A NEW CKT KVA LOAD BKR CIRCUIT DESCRIPTION A B C 20/1 K12 BOFI CONVEYOR OVEN 0.72 0 0 -/1 SHUNT TRIP 0 0 0 0 20/1 K12 BOFI CONVEYOR OVEN 0.72 0 0 0 20/1 GPS TV GFCI 0 <td< td=""><td>BUS AMPS 125 ED FROM A NEUTRAL 100% OTE NEW CKT ED FROM A DOTE NEW CKT SHUNT TRIP -/1 SHUNT TRIP -/1 SHUNT TRIP -/1 SHUNT TRIP -/1 SHUNT TRIP 20/1 RT REC. GFCI 20/1 PIZZA TRACKER TV GFCI 20/1 DRY STOR&CAR TOP REC. GFCI 20/1 DRY STOR&CAR TOP REC. GFCI 20/1 DONINO'S LOGO REC. GFCI 20/1 RCC&PTACLE GFCI 20/1 RCCAPAT APRINTER REC. GFCI 20/1 RCCAPAT APRINTER REC. GFCI 20/1 P.O.S. REC. GFCI 20/1 P.O.S. REC. GFCI 20/1 P.O.S. REC. GFCI 20/1 P.O.S. REC. GFCI 20/1 P.O.S. REC. GFCI 20/1 P.O.S. REC. GFCI 20/1 P.O.S. REC. GFCI 20/1 P.O.S. REC. GFCI 20/1 P.O.S. REC. GFCI 20/1 ORDER STA GFCI 20/2 I.GHTING <</td><td>BUS AMPS 125 NEUTRAL 100% BUS AMPS 125 NEUTRAL 100% CKT KVA LOAD CKT CKT BKR CIRCUIT DESCRIPTION A BUS AMPS 125 NEUTRAL 100% CKT CKT CIRCUIT DESCRIPTION A BUS AMPS 125 CKT CKT CIRCUIT DESCRIPTION A B CKT CKT CKT CKT CIRCUIT DESCRIPTION A BUS AMPS 125 CKT CIRCUIT DESCRIPTION A B CKT CKT CKT CIRCUIT DESCRIPTION A B CKT CKT CIRCUIT DESCRIPTION A KVA LOAD CKT CIRCUIT DESCRIPTION A CKT CKT CIRC</td><td>OUNTING FLUSH BUS AMPS 125 ED FROM A NEUTRAL 100% OTE NEW CKT CRCUIT DESCRIPTION A BKR CIRCUIT DESCRIPTION A A B C # 20/1 K12 BOFI CONVEYOR OVEN 0.72 2 20/1 K12 BOFI CONVEYOR OVEN -/1 SHUNT TRIP 0 6 20/1 GREASE TRAP RE 20/1 GPS TV GFCI 0.18 0 6 20/1 SPACE 20/1 DPS TV GFCI 0.6 16 20/1 MAN OFF REC. 20/1 DPS STOR&CAR TOP REC. GFCI 0.72 0 0.6 18 20/1 20/1 DPS STOR&CAR TOP REC. GFCI 0.72 0.6 18 20/1 MAN OFF REC. 20/1 DRIVER DISP REC. GFCI 0.72 0.6 18 20/1 DAMPER 20/1 DRIVER DISP REC. GFCI 0.66 0.18 22 20/1 AHU-2 20/1 PLOS. REC. GFCI 0.66</td><td>NUMING FLUSH BUS AMPS 125 MAIN BKR MLO ED FROM A NEUTRAL 1007 LUGS STANDARD OTE NEW Incutral 1007 LUGS STANDARD OTE NEW Incutral 0 KT KT CIRCUIT DESCRIPTION Incutral Incutral</td><td>DUNTING FLUSH BUS AMPS 125 MAIN BKR MLO DOTE NEW NEUTRAL 100% LUGS STANDARD LUGS STANDARD OTE NEW KVA LOAD OKT CKT LUGS STANDARD A B C # BKR CIRCUIT DESCRIPTION A A D C # D A D CIRCUIT DESCRIPTION A A D C C D D A D CIRCUIT DESCRIPTION A D CIRCUIT DESCRIPTION A D D D D D D D D D D D D D <t< td=""><td>OUNTING FLUSH BUS AMPS 125 MAIN BKR MLO ED FROM A NEW ILUGS STANDARD LUGS STANDARD OTE NEW EVALOAD KT OKT <th< td=""></th<></td></t<></td></td<>	BUS AMPS 125 ED FROM A NEUTRAL 100% OTE NEW CKT ED FROM A DOTE NEW CKT SHUNT TRIP -/1 SHUNT TRIP -/1 SHUNT TRIP -/1 SHUNT TRIP -/1 SHUNT TRIP 20/1 RT REC. GFCI 20/1 PIZZA TRACKER TV GFCI 20/1 DRY STOR&CAR TOP REC. GFCI 20/1 DRY STOR&CAR TOP REC. GFCI 20/1 DONINO'S LOGO REC. GFCI 20/1 RCC&PTACLE GFCI 20/1 RCCAPAT APRINTER REC. GFCI 20/1 RCCAPAT APRINTER REC. GFCI 20/1 P.O.S. REC. GFCI 20/1 P.O.S. REC. GFCI 20/1 P.O.S. REC. GFCI 20/1 P.O.S. REC. GFCI 20/1 P.O.S. REC. GFCI 20/1 P.O.S. REC. GFCI 20/1 P.O.S. REC. GFCI 20/1 P.O.S. REC. GFCI 20/1 P.O.S. REC. GFCI 20/1 ORDER STA GFCI 20/2 I.GHTING <	BUS AMPS 125 NEUTRAL 100% BUS AMPS 125 NEUTRAL 100% CKT KVA LOAD CKT CKT BKR CIRCUIT DESCRIPTION A BUS AMPS 125 NEUTRAL 100% CKT CKT CIRCUIT DESCRIPTION A BUS AMPS 125 CKT CKT CIRCUIT DESCRIPTION A B CKT CKT CKT CKT CIRCUIT DESCRIPTION A BUS AMPS 125 CKT CIRCUIT DESCRIPTION A B CKT CKT CKT CIRCUIT DESCRIPTION A B CKT CKT CIRCUIT DESCRIPTION A KVA LOAD CKT CIRCUIT DESCRIPTION A CKT CKT CIRC	OUNTING FLUSH BUS AMPS 125 ED FROM A NEUTRAL 100% OTE NEW CKT CRCUIT DESCRIPTION A BKR CIRCUIT DESCRIPTION A A B C # 20/1 K12 BOFI CONVEYOR OVEN 0.72 2 20/1 K12 BOFI CONVEYOR OVEN -/1 SHUNT TRIP 0 6 20/1 GREASE TRAP RE 20/1 GPS TV GFCI 0.18 0 6 20/1 SPACE 20/1 DPS TV GFCI 0.6 16 20/1 MAN OFF REC. 20/1 DPS STOR&CAR TOP REC. GFCI 0.72 0 0.6 18 20/1 20/1 DPS STOR&CAR TOP REC. GFCI 0.72 0.6 18 20/1 MAN OFF REC. 20/1 DRIVER DISP REC. GFCI 0.72 0.6 18 20/1 DAMPER 20/1 DRIVER DISP REC. GFCI 0.66 0.18 22 20/1 AHU-2 20/1 PLOS. REC. GFCI 0.66	NUMING FLUSH BUS AMPS 125 MAIN BKR MLO ED FROM A NEUTRAL 1007 LUGS STANDARD OTE NEW Incutral 1007 LUGS STANDARD OTE NEW Incutral 0 KT KT CIRCUIT DESCRIPTION Incutral Incutral	DUNTING FLUSH BUS AMPS 125 MAIN BKR MLO DOTE NEW NEUTRAL 100% LUGS STANDARD LUGS STANDARD OTE NEW KVA LOAD OKT CKT LUGS STANDARD A B C # BKR CIRCUIT DESCRIPTION A A D C # D A D CIRCUIT DESCRIPTION A A D C C D D A D CIRCUIT DESCRIPTION A D CIRCUIT DESCRIPTION A D D D D D D D D D D D D D <t< td=""><td>OUNTING FLUSH BUS AMPS 125 MAIN BKR MLO ED FROM A NEW ILUGS STANDARD LUGS STANDARD OTE NEW EVALOAD KT OKT <th< td=""></th<></td></t<>	OUNTING FLUSH BUS AMPS 125 MAIN BKR MLO ED FROM A NEW ILUGS STANDARD LUGS STANDARD OTE NEW EVALOAD KT OKT OKT <th< td=""></th<>



 $\underbrace{\mathsf{KEY}}_{N.T.S.} \xrightarrow{\mathsf{MAP}}_{\mathsf{N},\mathsf{T},\mathsf{S}}$

		SHEET NOTE
	Α.	PER NEC 408.4 – EVERY BRANCH CIRCUIT AND CIRCUIT MODIFICATION MUST BE UNIQUELY IDENTIFIED. PROVIDE A TAG AT EACH CIRCUIT CONDUCTORS JUNCTION BOX, OUTLET, SWITCH, ETC. DESIGNATING WHICH ELECTRICAL PANEL AND CIRCUIT NUMBER THE CONDUCTOR IS FED FROM.
	В.	PROVIDED A HANDLE-TIE TO OPERATE SIMULTANEOUSLY FOR ALL CIRCUIT BREAKERS SHARING THE SAME NEUTRAL CONDUCTOR.
		SES KEYED NOTES
_		

1 TVSS (TRANSIENT VOLTAGE SURGE SUPPRESSER) TO BE SUPPLIED BY ELECTRICAL CONTRACTOR. MANUFACTURER: SQUARE-D, MODEL# EMA SERIES-TVS2EMA12A OR EQUAL. INTERIOR MOUNTED ADJACENT TO PANEL-B AND WITHIN 10'. PROVIDE ALL WIRING AND GROUNDING AS RECOMMENDED BY THE MANUFACTURER. ELECTRICAL CONTRACTOR SHALL CONTACT AND COORDINATE EXACT TVSS REQUIREMENTS WITH MANUFACTURER MANUFACTURER.

	FEEDER SCHEDULE	
FEEDER AMPS	CONDUIT AND FEEDER	FEEDING THESE DEVICES
100	1-1/2"C,3#1,#1N,#8G	В
200	2"C,3#3/0,#3/0N,#6G	A

SIZING METHOD: COPPER, 60°C #12 THROUGH #1, 75°C 1/0 AND ABOVE

PANEL SCHEDULE KEYED NOTES :

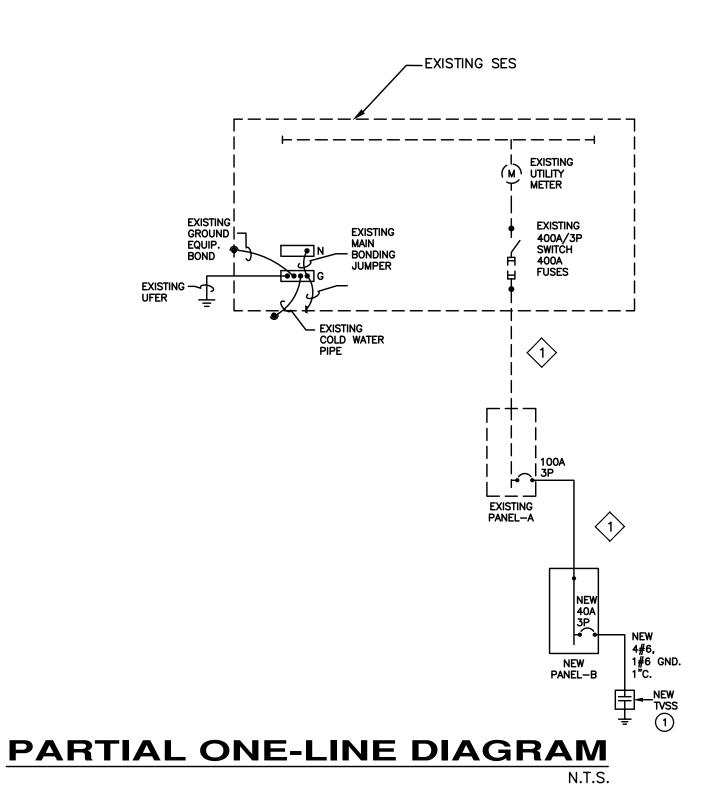
(1) INDICATES PROVIDE & INSTALL A LOCK-ON DEVICE. (2) PROVIDE RED IDENTIFICATION FOR FIRE ALARM EQUIPMENT PER NEC 760.41 (A) & (B).

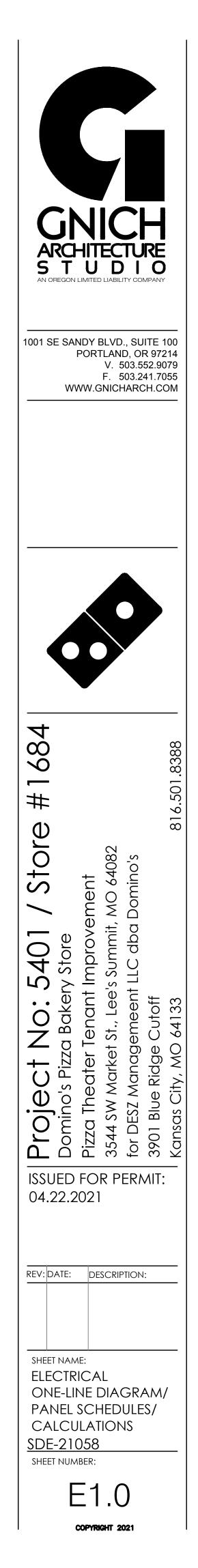
GENERAL ONE-LINE NOTES :

A. DASHED LINES INDICATE EXISTING EQUIPMENT. SOLID LINES INDICATE NEW EQUIPMENT U.N.O.

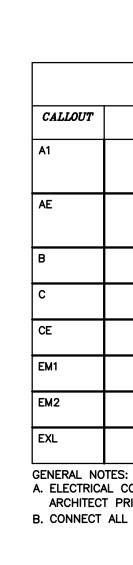
ONE LINE DIAGRAM KEYED NOTES :

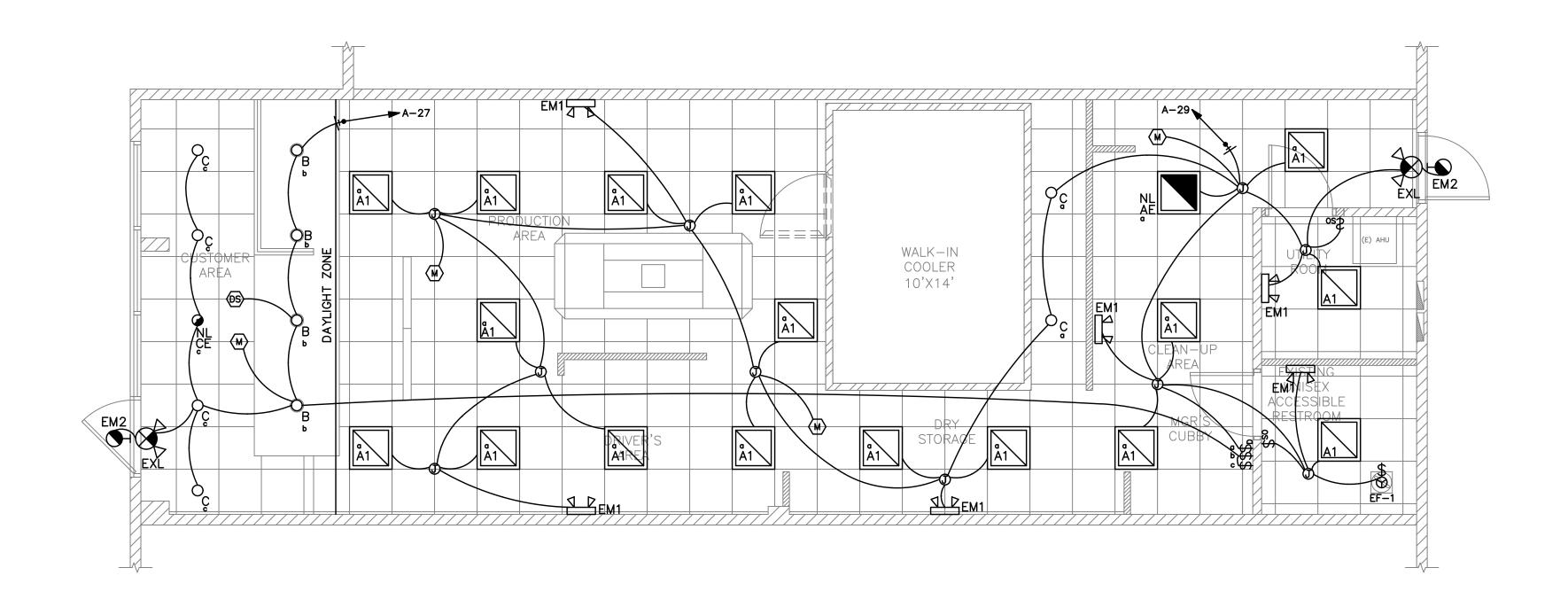
1. SEE FEEDER SCHEDULE THIS SHEET.





Dreiming Film: Br.V.Drobox: (Ikonen)/Jikone: Brigheering/2021/S21(DAMIOB – DOMINOS LIETS SUAMIT 140 5401/dec/208–2.4 Politikal Dida: Aer 27, 2021 – 12111am Politikal Dida: Aer 27, 2021 – 12111am



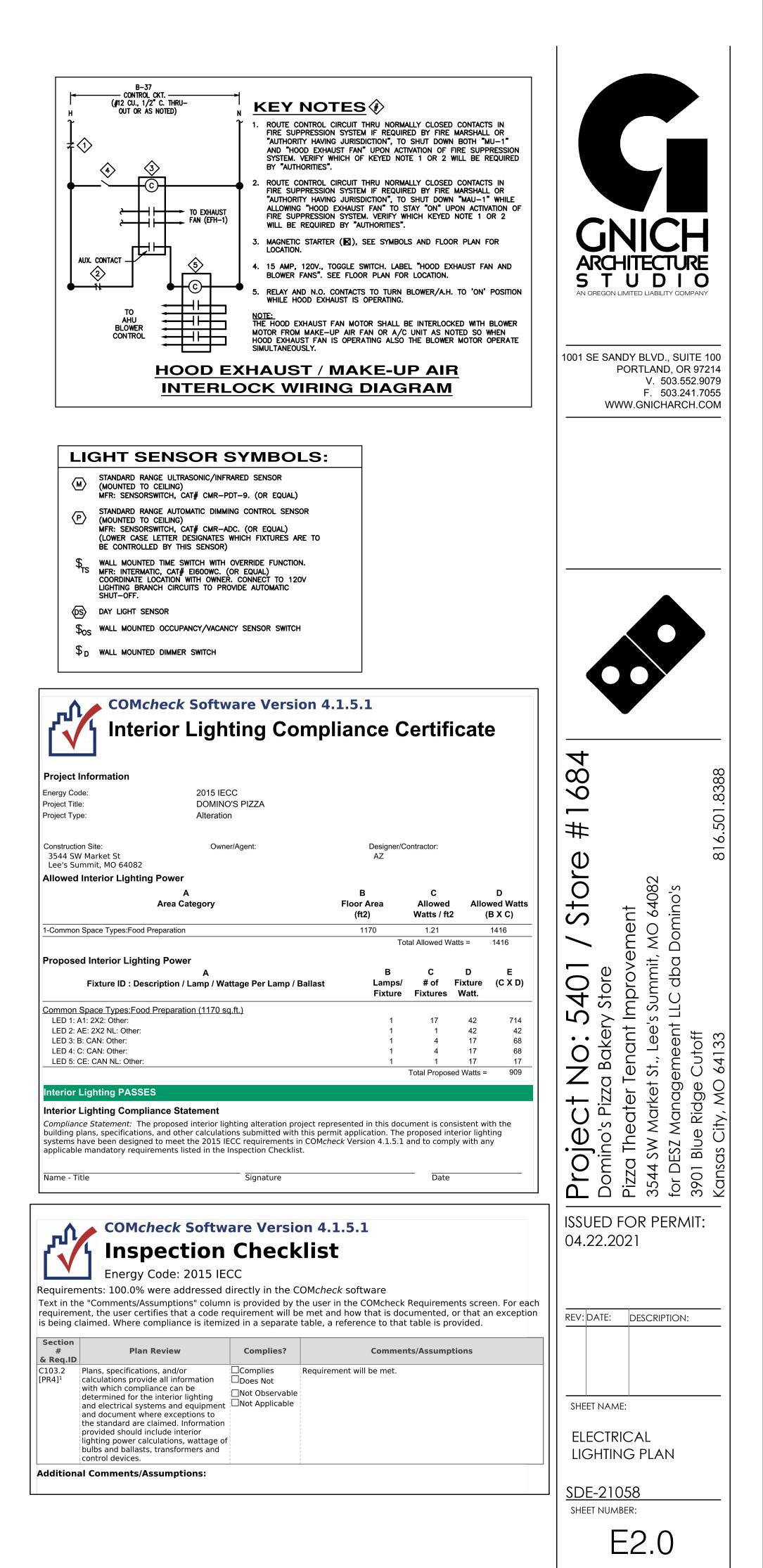


•	SYMBOL	LAMP	MODEL	DESCRIPTION	BALLAST	MOUNTING	INPUT WATTS	VOLTS
		(1) LED	COLUMBIA LJT22-50-VLG-FSA12-EDU	2'X2' LED 4718 LUMEN PRISMATIC TROFFER	STANDARD	CEILING	42	120V 1P 2W
		(1) LED	COLUMBIA LJT22-50-VLG-FSA12-EDU-ELL14	2'X2' LED 4718 LUMEN PRISMATIC TROFFER NIGHT LIGHT.	STANDARD	CEILING	42	120V 1P 2W
	0	(1) LED	LOTUS LED LL6R-30K-WH-FRP6	6" APERTURE LED 980 LUMEN DOWNLIGHT	STANDARD	RECESSED	17	120V 1P 2W
	0	(1) LED	LOTUS LED LL6R-30K-WH-FRP7	6" APERTURE LED 980 LUMEN DOWNLIGHT	STANDARD	RECESSED	17	120V 1P 2W
	Ø	(1) LED	LOTUS LED LL6R-30K-WH-FRP7	6" APERTURE LED 980 LUMEN DOWNLIGHT NIGHT LIGHT	STANDARD	RECESSED	17	120V 1P 2W
		(2) 0.56W LED	COMPASS (HUBBELL) CU2	LED EMERGENCY LIGHT WITH EMERGENCY BATTERY BACK UP 90 MINUTE MINIMUM.	STANDARD	WALL	1	120V 1P 2W
	9	(2) 3W LED	COMPASS (HUBBELL) CUW	DECORATIVE LED AC/EMERGENCY LIGHT WATERPROOF	STANDARD	WALL	9	120V 1P 2W
	$\overbrace{}^{\checkmark}$	(1) 4.12W LED	COMPASS (HUBBELL) CCR	EXIT SIGN WITH EMERGENCY BATTERY BACKUP 90 MIN MINIMUM	STANDARD	WALL	4.12	120V 1P 2W

A. ELECTRICAL CONTRACTOR SHALL COORDINATE ALL DEVICE & FIXTURE FINISHES, LOCATIONS AND MOUNTING HEIGHTS WITH ARCHITECT PRIOR TO PURCHASING ANY EQUIPMENT. ALSO CONFIRM THE EXACT CEILING TYPE PRIOR TO ORDERING ANY FIXTURES.

B. CONNECT ALL EXIT AND EMERGENCY LIGHTING TO UNSWITCHED LEG OF LOCAL LIGHTING CIRCUIT.

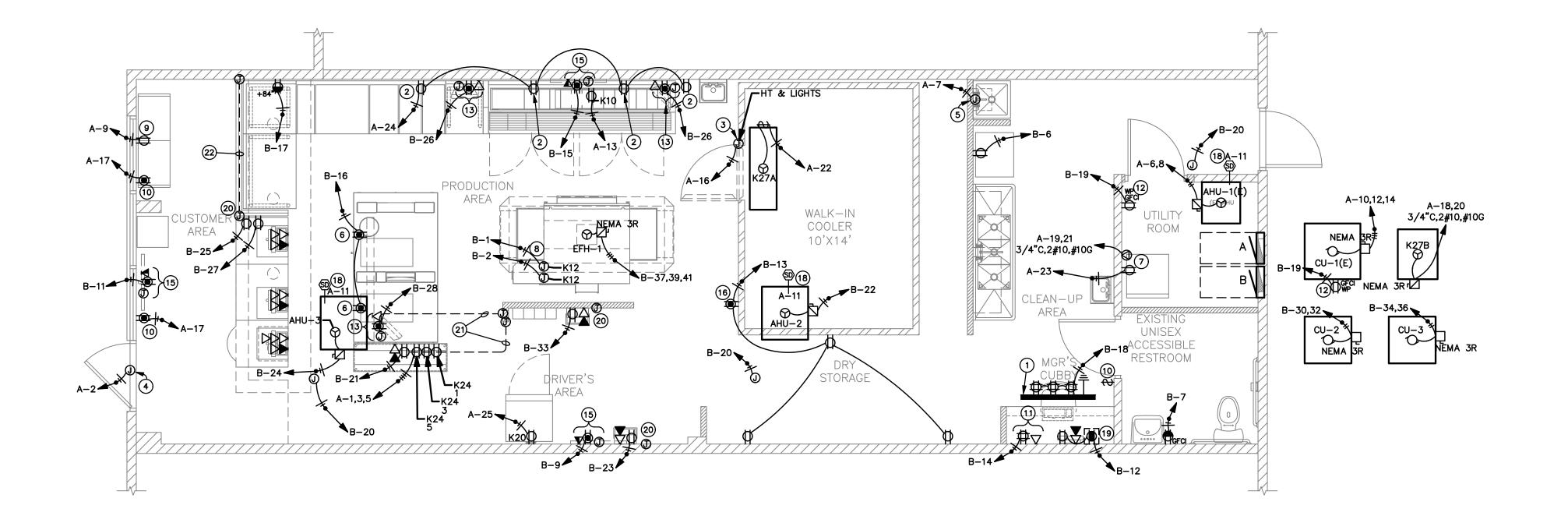
ELECTRICAL LIGHTING PLAN SCALE: 1/4"=1'-0"



GENERAL	Α.	 	 element T namepl	 AND	SIZE	
KEY	NOTES:					

- E = FURNISHED BY ELECT. CONTRACTORF = FUSED (300V = FRNR / 600V = FRSR)
- B = BREAKER
- I = INTEGRAL WITH UNIT
- NF = NON-FUSED Q = FURNISHED WITH EQUIPT
- N3R = NEMA 3R RATED
- N1 = NEMA 1 RATED

CALLOUT	SYMBOL	DESCRIPTION	NEMA	VOLTS	AMPS	MCA	KVA	CALC. LOAD KVA	CIRCUIT	WIRE CALLOUT
AHU-1(E)	8 B	AIR HANDLER UNIT #1(E)		208V 2P 2W	4.15		0.86	1.08	A-6,8	3/4"C,2#12,#12G
AHU-2	8 R	AIR HANDLER #2		120V 1P 2W	13.8		1.66	2.07	B-22	3/4"C,1#12,#12N,#12G
AHU-3	8 R	AIR HANDLER #3		120V 1P 2W	13.8		1.66	2.07	B-24	3/4"C,1#12,#12N,#12G
CU-1(E)	87B	CONDENSER UNIT #1(E)	NEMA 3R	208V 3P 3W	13.23	15.5	4.77	5.78	A-10,12,14	3/4"C,3#12,#12G
CU-2	07B	CONDENSER UNIT #2	NEMA 3R	208V 2P 2W	19	19	3.95	4.94	B-30,32	3/4"C,2#12,#12G
CU-3	80	CONDENSER UNIT #3	NEMA 3R	208V 2P 2W	19	19	3.95	4.94	B-34,36	3/4"C,2#12,#12G
EF—1	Ø\$	EXHAUST FAN #1		120V 1P 2W	0.83		0.1	0.13	A-29	3/4"C,1#10,#10N,#10G
EFH—1	8 R	HOOD EXHAUST FAN	NEMA 3R	208V 3P 3W	2.54		0.91	1.14	B-37,39,41	3/4"C,3#12,#12G
HT & LIGHTS	Θ	HEAT TAPE & LIGHTS		120V 1P 2W	6		0.72	1	A-16	3/4"C,1#12,#12N,#12G
К10	₽	MAKELINE LCP		120V 1P 2W	8.6		1.03	1	A-13	3/4"C,1#12,#12N,#12G
К12	0	DOUBLE STACK CONVEYOR		120V 1P 2W	6		0.72	1	B—1	3/4"C,1#12,#12N,#12G
К12	0	DOUBLE STACK CONVEYOR		120V 1P 2W	6		0.72	1	B-2	3/4"C,1#12,#12N,#12G
K20	\$	SINGLE DOOR VISI-COOLER		120V 1P 2W	7.5		0.9	1.13	A-25	3/4"C,1#12,#12N,#12G
K24	₽	60" HEAT LAMP		120V 1P 2W	10.5		1.26	1	A-1	3/4"C,1#12,#12N,#12G
K24	₽	60" HEAT LAMP		120V 1P 2W	10.5		1.26	1	A-3	3/4"C,1#12,#12N,#12G
K24	¢	60" HEAT LAMP		120V 1P 2W	10.5		1.26	1	A-5	3/4"C,1#12,#12N,#12G
K27A	Ø\$	COOLER EVAP UNIT		120V 1P 2W	2		0.24	0.3	A-22	3/4"C,1#12,#12N,#12G
K27B	© ₽	COOLER COND UNIT	NEMA 3R	208V 2P 2W	18.19		3.78	4.73	A-18,20	3/4"C,2#10,#10G



GENERAL EQUIPMENT SCHEDULE

NOTE: ALL DISCONNECTS AND SWITCHES TO BE PROVIDED AND INSTALLED BY ELEC CONTRACTOR.



- EQUIPMENT.
- 3. K# INDICATES FOOD SERVICE EQUIPMENT IDENTIFICATION NUMBER. SEE KITCHEN SCHEDULE ON THIS SHEET.
- 4. THE ELECTRICAL CONTRACTOR SHALL VERIFY ROUGH-IN REQUIREMENTS, LOCATIONS, MOUNTING HEIGHTS, VOLTAGE, PHASE, AMPS, HP, KW, ETC. FOR ALL FOOD SERVICE EQUIPMENT PRIOR TO ROUGH-IN. 5. PROVIDE SEAL-OFF'S FOR ALL CONDUITS ENTERING OR LEAVING
- WALK-IN BOXES. 6. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE ROUGH-IN REQUIREMENTS, LOCATIONS, ORIENTATION, VOLTAGE, PHASE, HP, KW, ETC. FOR ALL HVAC AND PLUMBING EQUIPMENT PRIOR TO ROUGH-IN. 7. ALL CIRCUITS SHALL HAVE AN INSULATED GROUND WIRE (BOND) SIZED PER N.E.C. 250.122. #12 MINIMUM GROUND. WIRE NOT SHOWN ON
- DRAWINGS.
- SUPERVISION OF KITCHEN EQUIPMENT SUPPLIER.
- 9. THE ELECTRICAL CONTRACTOR SHALL VERIFY THE PLUG CONFIGURATIONS FOR APPLICABLE KITCHEN EQUIPMENT WITH SUPPLIER PRIOR TO ROUGH-IN.
- 210.8(B).
- 11. ALL RECEPTACLES IN PRODUCTION AREA LOW WALL SHALL BE MOUNTED HORIZONTALLY AT +6" BELLOW LOW WALL CAP U.N.O.

DATA ROUGHS ARE BY GC AND DATA CABLING BY DOMINO'S VENDER

ELECTRICAL POWER PLAN SCALE: 1/4"=1'-0'

GENERAL KITCHEN NOTES

- FINAL CONNECTION TO ALL KITCHEN EQUIPMENT SHALL BE MADE WITH "SEAL-TITE" FLEXIBLE CONDUIT.
- 2. THE ELECTRICAL CONTRACTOR SHALL MAKE FINAL ELECTRICAL CONNECTIONS TO ALL KITCHEN FOOD SERVICE AND RELATED
- 8. THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL DISCONNECT SWITCHES, CONDUIT, WIRE AND INSTALL UNDER
- 10. PROVIDE GFCI PROTECTION FOR ALL KITCHEN RECEPTACLES PER NEC

KEYED NOTES

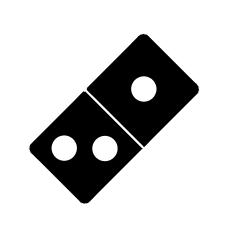
- 1 PROVIDE A FIRE-TREATED 4'X4'X3/4" PLYWOOD WITH #6 CU. GND. FOR TELEPHONE/COMMUNICATIONS MOUNTING BOARD "T.M.B." TO COMPLY WITH NEC 800.100(B). COORDINATE EXACT LOCATION WITH OWNER AND ARCHITECT PRIOR TO INSTALLATION. PROVIDE 3/4" C. TO MAIN BUILDING TELEPHONE MOUNTING CABINET/BOARD. MOUNT ABOVE SUSPENDED CEILING WHERE SHOWN IN ACCESSIBLE CEILING SPACE.
- (2) RECEPTACLE BEHIND MAKELINE AND PREP COUNTER RECOMMENDED TO BE MOUNTED AS HIGH AS POSSIBLE U.N.O. COORDINATE MOUNTING HEIGHTS & LOCATION WITH OWNER.
- 3 J-BOX FOR CONNECTION TO WALK-IN COOLER DOOR HEAT TAPE AND LIGHTS. PROVIDE W.P. MANUAL SWITCH AND MAKE CONNECTION TO LIGHTS. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH VENDOR.
- PROVIDE W.P. JUNCTION BOX FOR CONNECTION TO NEW TENANT SIGNAGE. VERIFY EXACT LOCATION IN FIELD AND WITH OWNER PRIOR TO ANY WORK. VERIFY ELECTRICAL REQUIREMENTS WITH SIGN SUPPLIER. CIRCUIT THRU TIME CLOCK, PROVIDED BY GC.
- 5 PROVIDE JUNCTION BOX AND 20A RECEPTACLE FOR CONNECTION TO WATER HEATER IGNITER/CONTROLS/RECIRCULATION PUMP, AS APPLICABLE. COORDINATE EXACT LOCATIONS WITH PLUMBING CONTRACTOR. VERIFY ELECTRICAL REQUIREMENTS WITH W/H SUPPLIER/INSTALLER.
- 6 PROVIDE A CEILING MOUNTED RECEPTACLE FOR CONNECTION TO LED MENU BOARD. 600 WATTS MAX (EACH). VERIFY EXACT REQUIREMENTS WITH SUPPLIER AND THE LOCATION IN FIELD.
- 7 30A, 120/208V 1PH, RECEPTACLE FOR ELECTRIC STACKED SEPERATE CLOTHES WASHER/DRYER. VERIFY LOCATION, RECEPTACLE CONFIGURATION AND ELECTRICAL REQUIREMENTS WITH THE ARCHITECT AND MANUFACTURER. PROVIDE 3#10, 1#10 GND., IN 3/4"C. TO MEET NEC REQUIREMENTS.
- (8) PROVIDE JUNCTION BOX FOR CONNECTION TO OVEN CONTROLLER. COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS OF CONTROLS WITH SUPPLIER.
- (9) PROVIDE A TAMPER RESISTANT COMBINATION 15A, 120V RECEPTACLE AND A USB CHARGER DEVICE TO BE EQUAL TO ARROWHART TR7740W. MOUNT COMBO-OUTLETS HORIZONTALLY AT +38" AFF.
- (1) SHOW-WINDOW RECEPTACLE, MOUNT FLUSH IN CEILING. PROVIDE 120V 20A SWITCH AT MANAGERS OFFICE FOR SHOW-WINDOW RECEPTACLES CONTROL. COORDINATE EXACT LOCATION WITH OWNER PRIOR TO POLICIE IN
- (1) PROVIDE DATA OUTLET AND DUPLEX RECEPTACLE FOR SECURITY EQUIPMENT. COORDINATE EXACT LOCATION WITH ARCHITECT AND/OR OWNER PRIOR TO ROUGH-IN. VERIFY EXACT ELECTRICAL REQUIREMENTS WITH INSTALLER OR OWNER.
- (12) PROVIDE A WP/GFI RECEPTACLE WITHIN 25'-0" OF HVAC EQUIPMENT. MOUNT RECEPTACLE AT +18" ABOVE ROOF/GROUND AS APPROPRIATE TO MEET NEC.
- (13) CONTRACTOR TO PROVIDE A DUPLEX RECEPTACLE AND DATA OUTLET AS SHOWN MOUNTED ABOVE CEILING. (14) NOT USED.
- (15) PROVIDE POLE/CEILING MOUNTED RECEPTACLE FOR PIZZA TRACKER OR TV.
- (16) PROVIDE A 20A, 120V, DUPLEX RECEPTACLE IN CEILING FOR MAGNETIC CAR-TOPPERS ABV. VERIFY LOCATION AND ADDITIONAL REQUIREMENTS WITH OWNER.
- (17) NOT USED.
- (18) SMOKE DETECTOR MOUNT IN DUCT PER MECHANICAL CODE REQUIREMENTS. CONNECTIONS CALLED OUT ON MECHANICAL PLANS.
- (19) PROVIDE USB/DUPLEX RECEPTICLE, COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH IN.
- (20) PROVIDE JUNCTION BOX AND 1-1/4" E.C. (RECOMMENDED) WITH PULLSTRING FOR MONITOR CABLING BY OTHERS. COORDINATE EXACT LOCATIONS AND REQUIREMENTS WITH SUPPLIER OR OWNER. (21) CONDUIT UNDER GROUND.
- (22) RUN CONDUIT THRU SHORT WALL TO FULL WALL.

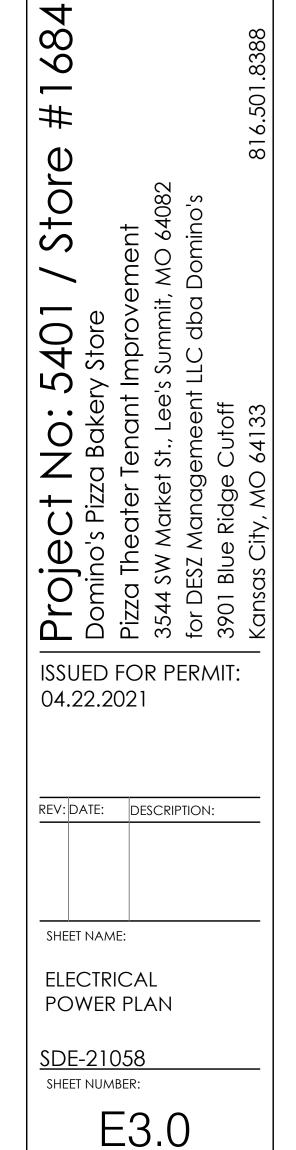
LOW VOLTAGE SYSTEM NOTE: ELECTRICAL CONTRACTOR SHALL PROVIDE A TELEPHONE MOUNTING BOARD (TMB), AS NOTED ON DRAWINGS AND 1-1/4" CONDUIT, WITH PULLWIRE, TMB, IN MANAGER OFFICE, TO ALL POINT OF SALE (POS) LOCATIONS, DRIVERS STATIONS AND OTHER LOCATIONS AS DIRECTED BY GENERAL CONTRACTOR (GC) AND/OR LOW VOLTAGE CONTRACTOR (LVC) FOR LOW VOLTAGE WIRING SYSTEM. ELECTRICAL CONTRACTOR SHALL MEET WITH GC AND LVC AND COORDINATE ALL REQUIREMENTS AND LOCATIONS FOR LOW VOLTAGE SYSTEM ROUGH-IN, INCLUDING TMB, CONDUITS AND J-BOXES FOR WIRING AND DEVICES PRIOR TO BEGINNING INSTALLATION.

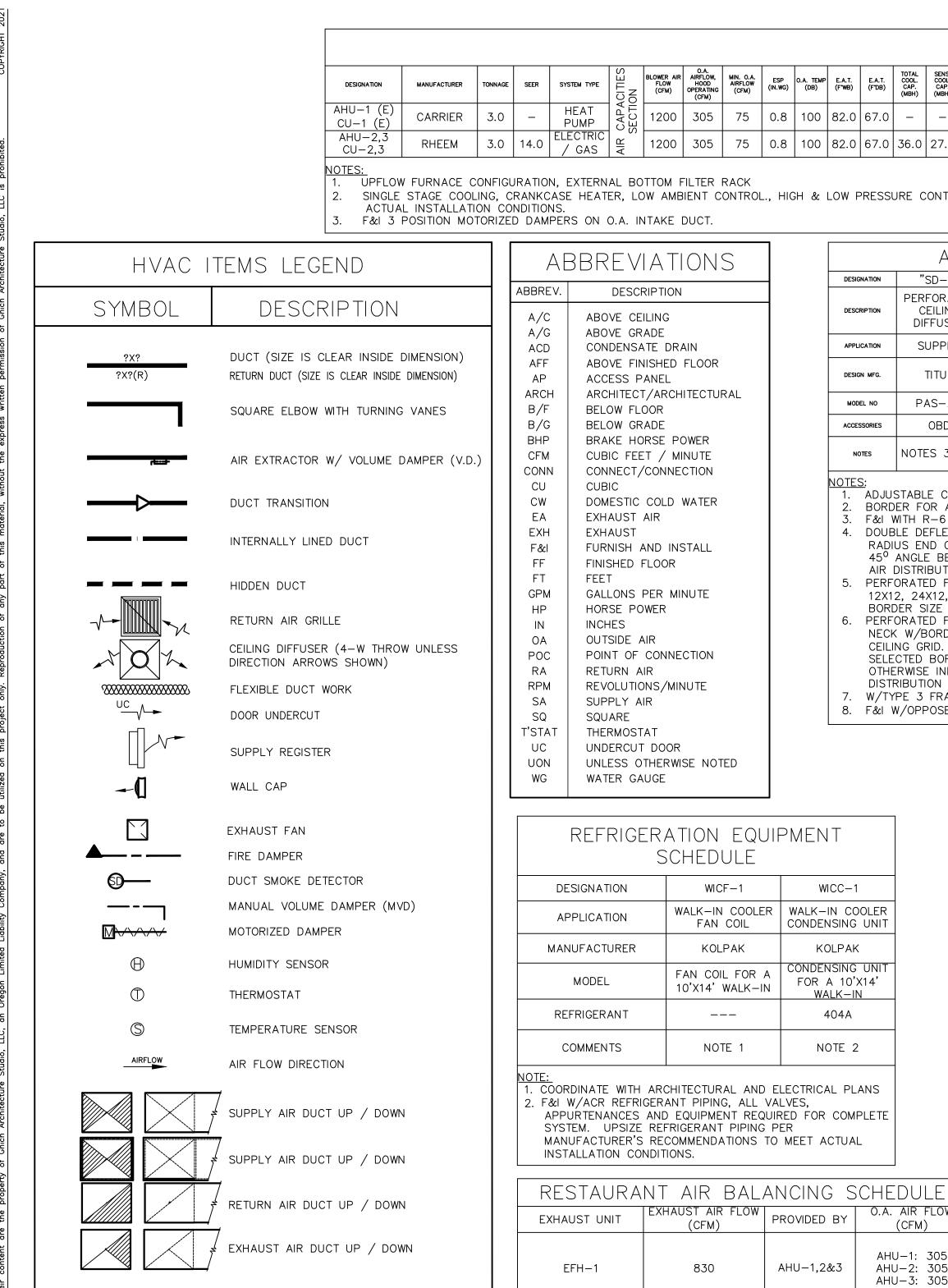
NOTE:

CONTRACTOR SHALL NOT INSTALL CONDUIT OR J-BOXES IN FIRE-RATED WALLS UNLESS REQUIRED. IF REQUIRED ALL PENETRATIONS IN FIRE-RATED PARTITIONS BETWEEN TENANT SPACES SHALL BE PROTECTED IN ACCORDANCE WITH SECTION 714 OF IBCB. DESIGN INFORMATION FOR APPROVED FIRE STOPPING SYSTEMS SHALL BE PROVIDED ON CONSTRUCTION DRAWINGS OR PROVIDED IN ADDENDUM TO SUCH DRAWINGS.









SELECTED EQUIPMENT IN THESE DRAWINGS CAN BE SUBSTITUTED WITH

EQUIPMENT OF EQUAL PERFORMANCE FROM ANOTHER MANUFACTURER THAT

AREA

LOBBY

STORAGE

PRODUCTION 3

OCCUPANCY

2

2

CFM/PERSON

7.5

0.0

7.5

IS PREFERRED BY OWNER/MECHANICAL CONTRACTOR.

*EF-1

EXFILTRATION

TOTAL EXHAUST

SUBTOTAL

15.0

0.0

22.5

85

_

915

AREA

KITCHEN

O.A. CALCULATIONS

SQUARE FEET

106

591

472

*FANS TO BE OPERATING ON AN INTERMITTENT BASIS

SQ.FT

472

CFM/SQ.FT

0.18

0.12

0.18

TOTAL 212

TOTAL CFM

330.4

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<u>TOTAL O.A.</u>

KITCHEN EXH AIR CALCULATIONS

CFM/SQ.FT

0.7

SUBTOTAL

19.1

70.9

85.0

SPLIT SYSTEM HVAC EQUIPMENT SCHEDULE

E.A.T. (F*DB)	TOTAL COOL. CAP. (MBH)	SENS. COOL. CAP. (MBH)	LAT. COOL. CAP. (MBH)	ISER ON	CONDENSING MODEL NUMBER	CONDENSER FAN (HP)	CONDENSER FAN FLA/LRA (AMPS)	COMPRESSOR RLA/LRA (AMPS)	MCA (AMPS)	MOCP MIN/MAX (AMPS)	Condenser electric Service	CONDENSER WEIGHT (LBS)	ON	MODEL NUMBER	AHU FAN FLA (AMPS)	AHU FAN (HP)	AHU WEIGHT (LBS)	FILTERS	HEAT/SOURCE	HEATER EFFICIENCY
67.0	—	_	-	NDEN SECTI	38YCC036	1/4	_	11.3–78	15.5	20	208/3/60	_	HAN	FA4ANF036	2.4	ŀ₃		2" THICK MERV 8	36MBH/HEAT PUMP	-
67.0	36.0	27.0	9.0	00	RA1436A	_	_	14.1	19	30	208/1/60	262	AIR	R92PA060/RCF36	4.6	3⁄4	159	2" THICK MERV 8	60MBH/N.GAS	92%

SINGLE STAGE COOLING, CRANKCASE HEATER, LOW AMBIENT CONTROL., HIGH & LOW PRESSURE CONTROL, COMPRESSOR TIME DELAY, HARD START KIT AND 24/ PROGRAMMABLE T'STAT. F&I ACR REFRIGERANT PIPING. UPSIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS TO MEET THE

	AIR	DISTRIBU	tion de	EVICES	
TION	"SD-1"	"SD-3"	_	"RG-1"	"RG-2"
TION	PERFORATED CEILING DIFFUSER	LOUVER CEILING DIFFUSER	_	PERFORATED CEILING INLET	LOUVERED GRILLE
TION	SUPPLY	SUPPLY	-	RETURN / EXHAUST	RETURN
MFG.	TITUS	TITUS	_	TITUS	TITUS
NO	PAS-AA	TMS-AA		PAR-AA	350FL
DRIES	OBD	OBD	_	_	_
S	NOTES 3,6&7	NOTES 1&3	_	NOTES 2,3,5&8	24X12

1. ADJUSTABLE CORE DIFFUSER WITH ROUND NECK.

BORDER FOR A 24X24 LAY-IN CEILING GRID. F&I WITH R-6 MOLDED INSULATION BLANKET.

4. DOUBLE DEFLECTION GRILLE, DUCT MOUNTED (NO CEILING), RADIUS END CAPS TO MATCH DUCT SIZE. MOUNT GRILLE AT

45° ANGLE BELOW HORIZONTAL. ADJUST BLADES FOR PROPER AIR DISTRIBUTION.

5. PERFORATED FACE RETURN/EXHAUST INLET. ROUND NECK W/BORDER FOR 12X12, 24X12, 16X16, 20X20 OR 24x24 LAY-IN CEILING GRID. SELECT BORDER SIZE FOR AVAILABLE SPACE IN CEILING GRID. 6. PERFORATED FACE DIFFUSER, ADJUSTABLE DISCHARGE PATTERN, ROUND

NECK W/BORDER FOR 12X12, 24X12, 16X16, 20X20 OR 24x24 LAY-IN CEILING GRID.

SELECTED BORDER SIZE FOR AVAILABLE SPACE IN CEILING GRID. UNLESS OTHERWISE INDICATED BY THROW DIRECTION ARROWS, UNIT TO BE 4-WAY DISTRIBUTION PATTERN. W/TYPE 3 FRAME BORDER FOR 24x24 CEILING GRID.

8. F&I W/OPPOSED BLADE DAMPER.

VE	NTILATION	I FAN SC	HEDULE	
DESIGNATION	EFH-1	EF-1	—	-
APPLICATION	KITCHEN FAN EXHAUST	RESTROOM EXHAUST FAN	_	_
MANUFACTURER	ACME	GREENHECK	_	_
MODEL	PDU135RG	SP-B90	-	_
AIR FLOW (CFM)	830	85	_	_
FAN SPEED (RPM)	_	700	-	_
EXT. STATIC PRESSURE	1"	0.125"	_	_
MOTOR (HP OR WATTS)	\mathcal{V}_2	21.1W	-	-
ELECTRICAL	208/3/60	120/1/60	_	-
WEIGHT	130	35	—	-
COMMENTS	NOTES 1,2,3,4,6,7,8	NOTE 5	_	_

NOTES:

1. F&I 20" HINGED CURB. UNIT TO HAVE GRAVITY BACKDRAFT DAMPER, GALV. INSECT SCREEN ON DISCHARGE SIDE OF DAMPER AND VENTILATOR INLET TO BE FLANGED FOR

DUCT CONN. INTERLOCK AHU-1, 2 & 3 AND EFH-1 FOR SYNCHRONIZED OPERATION.

CONTROL TO CLOSE DAMPERS WHEN UNIT IS OFF AND OPEN WHEN THE UNIT RUNS.

4. DAMPER SHALL BE NORMALLY CLOSED WITH 24V ACTUATOR SUITABLE FOR INTERCONNECTION WITH AC CONTROL WIRING. F&I W/MFGR SUPPLIED SPEED CONTROL TO BALANCE FAN.

SPEED SWITCH TO BE IN SECURED PANEL ADJACENT TO FAN ABOVE CEILING. FANS TO BE CONTROLLED BY OCCUPANCY SENSORS COMBINED W/5 MIN (ADJ) TIME DELAY TO SHUT OFF FAN. 6. F&I MOTORIZED DAMPER ON OUTSIDE AIR & MAKE-UP AIR INTAKE DUCTS.

ROOF OPENING 14.5"X14.5". 8. VFD DRIVE.

GENERAL NOTES:

- 1. DOOR UNDERCUTS TO PROVIDE A 0.75"CLEAR OPENING.
- 2. MOUNT THERMOSTATS 48" ABOVE FINISH FLOOR TO CENTER.
- 3. DUCTWORK AND EQUIP. SHOWN IS DIAGRAMMATIC. COORDINATE AND ROUTE DUCTWORK TO MEET JOB REQUIREMENT. LOCATION OF EQUIPMENT MUST I COORDINATED WITH ALL DISCIPLINES BEFORE FINAL LOCATIONS ARE SELECTED. WEIGHT OF EQUIPMENT MUST BE VERIFIED AND COORDINATED WITH STRUCTURAL SYSTEMS BEFORE EQUIPMENT CAN BE INSTALLED AT JOB SITE.
- 4. SPACE ALLOCATED FOR MECHANICAL AND OTHER WORK ABOVE THE SUSPENDED CEILING IS CRITICAL. LIGHT FIXTURES AND AIR DIFFUSERS HAVE BEEN LOCATED TO ACHIEVE A DEFINITE ARCHITECTURAL EFFECT AND MAY NOT BE CHANGED WITHOUT THE CONSENT OF THE ARCHITECT. BECOME FAMILIAR THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO FABRICATING AND INSTALLING ANY MATERIALS. HANG DUCTWORK AS CLOSE POSSIBLE TO THE STRUCTURE ABOVE, UNLESS INDICATED OTHERWISE.
- 5. COORDINATE THE LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.
- 6. PASSAGES OF PIPES, CONDUITS, BUS DUCTS, CABLES, WIRE, AIR DUCTS, PNEUMATIC DUCTS, AND SIMILAR BUILDING SERVICE EQUIPMENT THROUGH FIR BARRIERS SHALL BE PROTECTED AS FOLLOWS: THE SPACE BETWEEN THE PENETRATING ITEM AND FIRE BARRIER SHALL: BE FILLED WITH A MATERIAL CAPABLE OF MAINTAINING THE FIRE RESISTANCE RATING OF THE FIRE BARRIER PRODUCT. PRODUCT USED MUST MEET TEST METHODS ASTM E 814 OF NFPA 251 FOR FIRE RATING.
- 7. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DUCT AND PIPING LOCATIONS IN FIELD AND INCLUDE IN BID EXTENDING TO EXISTING AS REQUIRED. CONTRACTOR MAY REUSE ALL EXISTING DUCT IF CLEANED AND COMPLY WITH SPECS.
- 8. CONTRACTOR SHALL BALANCE ALL SYSTEMS. F&I 3RD PARTY OR LICENSED HVAC CONTRACTOR INSPECTION AND FURNISH COPY OF THE REPORT TO CITY INSPECTOR.
- 9. PLANS SHALL CONFORM TO THE THE CURRENT CODE AND LOCAL AMENDMENTS.
- 10. ALL DIFFUSERS AND GRILLES ARE LESS THAN 20 LBS, CONTRACTOR SHALL POSITIVELY ATTACH TO CEILING MAIN RUNNERS.
- 11. VENTS SHALL BE TERMINATED A MIN OF 1'-0" ABOVE ROOF AND 2'-0" ABOVE 8'-0" AWAY FROM PARAPETS OR WALLS.
- 12. THERMOSTATS ARE LOW VOLTAGE PROGRAMMABLE THERMOSTATS AND ARE TO BE LOCATED AS SHOWN.
- 13. IF THERE IS NO PARAPET, THE PARAPET IS LESS THAN 42" ABOVE ROOF SURFACE OR A DIFFERENCE IN WALKING SURFACE ELEVATION OF 3'-O", TH UNITS PLACED WITHIN 10'-0" OF EDGE OF ROOF, SHALL HAVE RAILINGS OR TIE-OFFS MEETING OSHA REQUIREMENTS.
- 14. RUN-OUTS TO DUCTS TO AIR DISTRIBUTION DEVICES SHALL BE SIZED THE SAME AS THE CONNECTION TO THE AIR DISTRIBUTION DEVICE, UNLESS OTHERWISE NOTED.
- 15. INTERIOR SUPPLY AND RETURN TRUNK DUCTS TO BE FIBERBOARD OR SHEET METAL. (TYP)
- 16. F&I EQUIPMENT REQUIRING AN EXTERNAL SOURCE OF ELECTRICAL POWER FOR ITS OPERATION SHALL BE HAVE THE FOLLOWING:
- 16.1. READILY ACCESSIBLE DISCONNECTING MEANS WITHIN SIGHT OF THE EQUIPMENT.
- 16.2. 120 VAC GROUNDING-TYPE RECEPTACLE OUTLET ON THE ROOF ADJACENT TO WITHIN 25 FEET OF EQUIPMENT. THE RECEPTACLE OUTLET SHALL N BE CONNECTED TO THE LOAD SIDE OF THE EQUIPMENT DISCONNECTING MEANS NEC 210.63. 17. WHERE MORE THAN ONE HVAC UNIT IS INSTALLED ON THE ROOF OF, OR WITHIN A BUILDING, IT SHALL BE PERMANENTLY IDENTIFIED AS TO THE AREA SPACE SERVED BY THE EQUIPMENT.
- 18. FURNISH O&M MANUALS FOR HVAC SYSTEMS WITHIN 90 DAYS OF SYSTEM ACCEPTANCE.
- 19. COMMISSIONING PLAN TO BE DEVELOPED BY REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY.
- 20. HVAC EQUIPMENT TO BE TESTED TO ENSURE PROPER OPERATION.
- 21. PRELIMINARY COMMISSIONING REPORT TO BE COMPLETED AND CERTIFIED BY REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY.
- 22. AS-BUILT HVAC SYSTEMS DRAWINGS TO BE SUBMITTED WITHIN 90 DAYS OF SYSTEM ACCEPTANCE.
- 23. PROVIDE AN AIR BALANCE REPORT FOR SYSTEMS TO THE OWNER.
- 24. FINAL COMMISSIONING REPORT DUE TO BUILDING OWNER WITHIN 90 DAYS OF RECEIPT OF OCCUPANCY.
- 25. HVAC SYSTEM CONTROLS TO BE TESTED TO ENSURE PROPER CALIBRATION, ADJUSTMENT AND OPERATION.
- 26. FLASH AND COUNTERFLASH ALL PIPES, CONDUITS, DUCTS AND FLUES THROUGH ROOF AND / OR EXTERIOR WALLS. MAKE PENETRATIONS WATERTIGH 27. MAKE-UP AIR FOR EFH-1 TO BE SUPPLIED BY RTUS UON. IF AN OVEN HOOD MAKE, MODEL OR OVEN CONFIGURATION IS CHANGED FROM THAT WHIC SHOWN ON THE MECHANICAL & ARCHITECTURAL DRAWINGS, THE AIR BALANCE SCHEDULE IS VOIDED AND SUFFICIENT AIR BALANCE IS NOT GUARANTE IN THE CASE OF A CHANGE IN FIELD, CONTRACTOR TO VERIFY MAKE-UP AIR REQUIREMENTS WILL BE MET.

TOTAL CFM	PROVIDED BY
34.1	AHU-1,2&3
70.9	AHU-1,2&3
107.5	AHU-1,2&3

PROVIDED BY

EFH-1

O.A. AIR FLOW

(CFM)

AHU-1: 305

AHU-2: 305 AHU-3: 305

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—

915

ER NCY	AIR HANDLING UNIT ELECTRIC SERVICE	ACCESSORIES
	208/1/60	_
%	120/1/60	NOTES 1,2&3

DESIGNATION MANUFACTURER MODEL	SUPPLY AIR MAKE-UP AIR DUCT CONN. (CFM)	CHEDULE T EXHAUST DUCT HOOD PRESS VELOCITY AT DUCT H DROP (IN) (IN, W.C.) ((FT/MIN) (LBS)		
EQUIPMENT AND A APPROVAL IN ACCO INSTALLATION INST 2. MANUFACTURER'S THE TIME OF INSPE 3. <u>SUPPORT:</u> HOOD S BE ADEQUATE FOR AND THE POSSIBL	HALL BE SECURED IN PLACE BY SUPPO THE APPLIED LOAD OF THE HOOD, THE E WEIGHT OF PERSONNEL WORKING IN (QUIRED BY THE TERMS OF THEIR LISTING. THE MANUFACTURER'S VING JURISDITION AVAILABLE ON THE JOB SITE AT RTS. ALL HOOD SUPPORTS SHALL E UNSUPPORTED DUCTWORK OR ON THE HOOD.	1001 SE SANDY E PORT	BLVD., SUITE 100 FLAND, OR 97214 V. 503.552.9079 F. 503.241.7055 SNICHARCH.COM
1. THE CONTRACTOR SUBMITTING BID. FI FOLLOWING R 1.A. EXACT PLACEL CONDITION OF SPECIFICALLY 1.A. SIZE, CONDITION 1.B. SIZE, CONDITION GRILLES, REGI 1.C. CONDITIONS A CONTROLS. 2. ALL REFERENCES O THERMOSTATS AND CONTRACTOR TO V	RIFICATION NOT SHALL FIELD VERIFY ALL EXISTING SITE ELD VERIFICATION WORK SHALL INCLUD MENT, DIMENSIONS, CONDITIONS, CAPAC ALL EXISTING HVAC EQUIP. WITHIN SC SHOWN OR NOT. ON AND LOCATIONS OF ALL EXISTING D ONS AND LOCATIONS OF ALL EXISTING STERS, DIFFUSERS, DAMPERS, ETC. ND LOCATION OF ALL EXISTING ENVIRO ON THESE DRAWINGS TO EXISTING EQUIP PIPING ARE FOR REFERENCE ONLY. IT ERIFY ALL ITEMS PRIOR TO SUBMITTAL UNTS REQUIRED TO ACCOMMODATE EXI	CONDITIONS PRIOR TO E, BUT NOT BE LIMITED TO THE CITIES MANUFACTURER AND OPE OF WORK, WHETHER DUCTWORK. AIR DISTRIBUTION DEVICES, NMENTAL AND AUTOMATED PMENT, DUCTWORK, DIFFUSERS, IS THE RESPONSIBILITY OF THE OF BID AND INCLUDE IN THE BID		
3. NO ALLOWANCES O TO FAILURE OF AC BEEN AWARDED. 4. ANY DISCREPANCIE THE ATTENTION OF ARE DISCOVERED. 3. ONLY ACR RATE A. ONLY ACR RATE B. IF SHUT-OFF VA MANUFACTURER, C. INSTALL ADDITION LENGTH OF PIPIN	R MODIFICATIONS TO THE CONTRACTOR CURATELY VERIFYING EXISTING CONDITION S WHICH MAY AFFECT THE CONTRACTO THE ENGINEER AND THE ARCHITECT F RANT PIPING N(COPPER PIPE TO BE USED. LVES (SOV) ARE NOT INSTALLED ON T INSTALL SOV ON EACH EQUIPMENT CO NAL TX VALVE AS RECOMMENDED BY T	ONS, AFTER THE PROJECT HAS ORS BID SHALL BE BROUGHT TO OR DIRECTION AS SOON AS THEY $OTES:HE EQUIPMENT BY THEDNNECTION.$	Store #1684	54082 ino's 816.501.8388
E. ALL AHU UNIT T F. F&I FILTER/DRYE FOLLOWED BY A DOWNSTREAM OF G. ALL SUCTION AN H. F&I CONDENSING CONDENSER FLO CYCLING. I. FULLY CHARGE L J. ADD ADDITIONAL FOR THE SYSTEM HE K. PIPE MINIMUM BE CASE LESS THAN	O HAVE AN INVERTED TRAP ON SUCTION R NEXT TO THE CU ON THE LIQUID LIN SIGHTGLASS WITH MOISTURE INDICATOR EACH SIGHTGLASS. D HOT GAS BY-PASS LINES TO BE INS UNITS WITH LOW AMBIENT TEMPERATU DD BACK, CONDENSER FAN SPEED CON INES AT THE END OF INSTALLATION, P OIL TO EACH SYSTEM AS PER MANUF I'S PIPE SIZES AND LENGTH. ENDING RADIUS PER MANUFACTURER'S I 4". REFRIGERANT AS RECOMMENDED BY T	NE. THE FILTER/DRYER TO BE R. F&I SOV IMMEDIATELY SULATED. IRE PROTECTION SUCH AS ITROL OR CONDENSER FAN PRIOR TO SYSTEM START-UP. ACTURER'S RECOMMENDATIONS RECOMMENDATIONS, BUT IN NO	Project No: 5401 / S1 Domino's Pizza Bakery Store Pizza Theater Tenant Improvement	3544 SW Market St., Lee's Summit, MO 64082 for DESZ Managemeent LLC dba Domino's 3901 Blue Ridge Cutoff Kansas City, MO 64133
A OR			ISSUED FOF 04.22.2021	
IT. CH IS EED.			SHEET NAME: MECHANIC SCHEDULES CALCULATI	ò,

AND LEGEND

SHEET NUMBER:

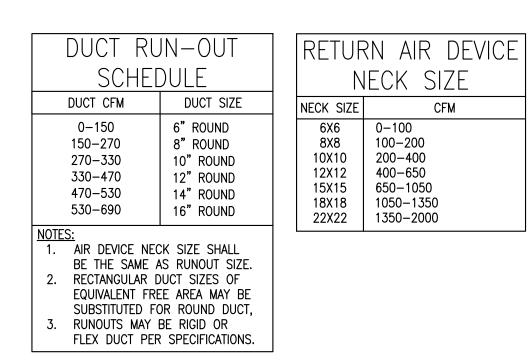
PRIOR TO THE COMMENCEMENT OF WORK, CONTRACTOR TO COORDINATE THE WORK REPRESENTED IN THIS SET OF DOCUMENTS. CONTRACTOR TO FIELD VERIFY CONDITION, LOCATION, SIZE, CAPACITY AND FLOW DIRECTION OF EXISTING SYSTEMS AND COMPONENTS BEING INCORPORATED INTO THE SYSTEMS AS INDICATED IN THESE DOCUMENTS.

UNLESS OTHERWISE NOTED, ALL EQUIPMENT, MATERIAL AND SYSTEM COMPONENTS CONTAINED OR REFERRED TO BY THESE DOCUMENTS ARE TO BE CONSIDERED AS NEW TO BE FURNISHED AND INSTALLED (F&I) AS THUS.

SEE SHEETS M1.0, P1.0, P4.0 AND ARCHITECTURAL DOCUMENTS FOR ADDITIONAL REQUIREMENTS.

UNLESS OTHERWISE NOTED, FLASH AND COUNTER FLASH ALL DUCTS, EQUIPMENT CURBS, ETC. PENETRATING THE ROOF/EXTERIOR WALLS, MAKE WATERTIGHT.

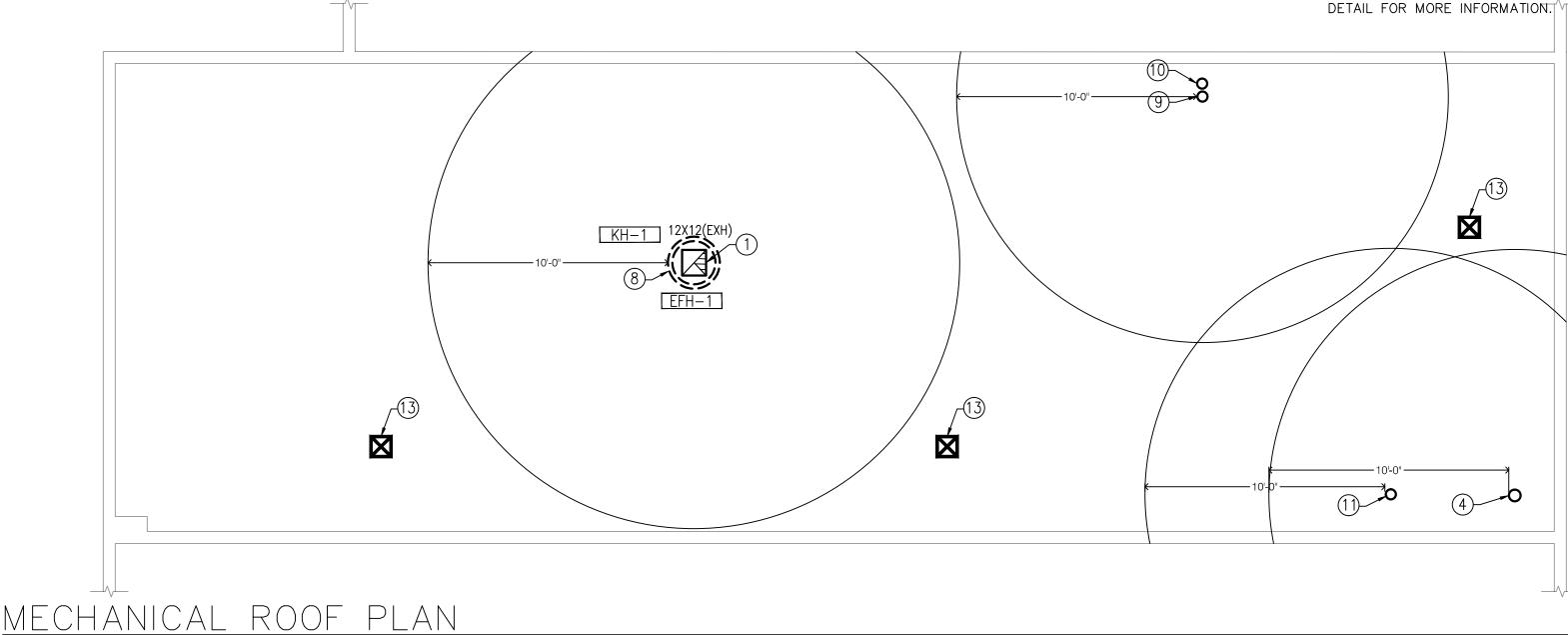
 DOES NOT DENOTE AIRFLOW DIRECTION. DENOTES DIRECTION IN WHICH DUCT CROSS SECTIONAL AREA DECREASES.
 UNLESS OTHERWISE NOTED, DUCTS TO BE SIZED THE SAME AS THE AIR DISTRIBUTION DEVICE CONNECTED TO THEM.

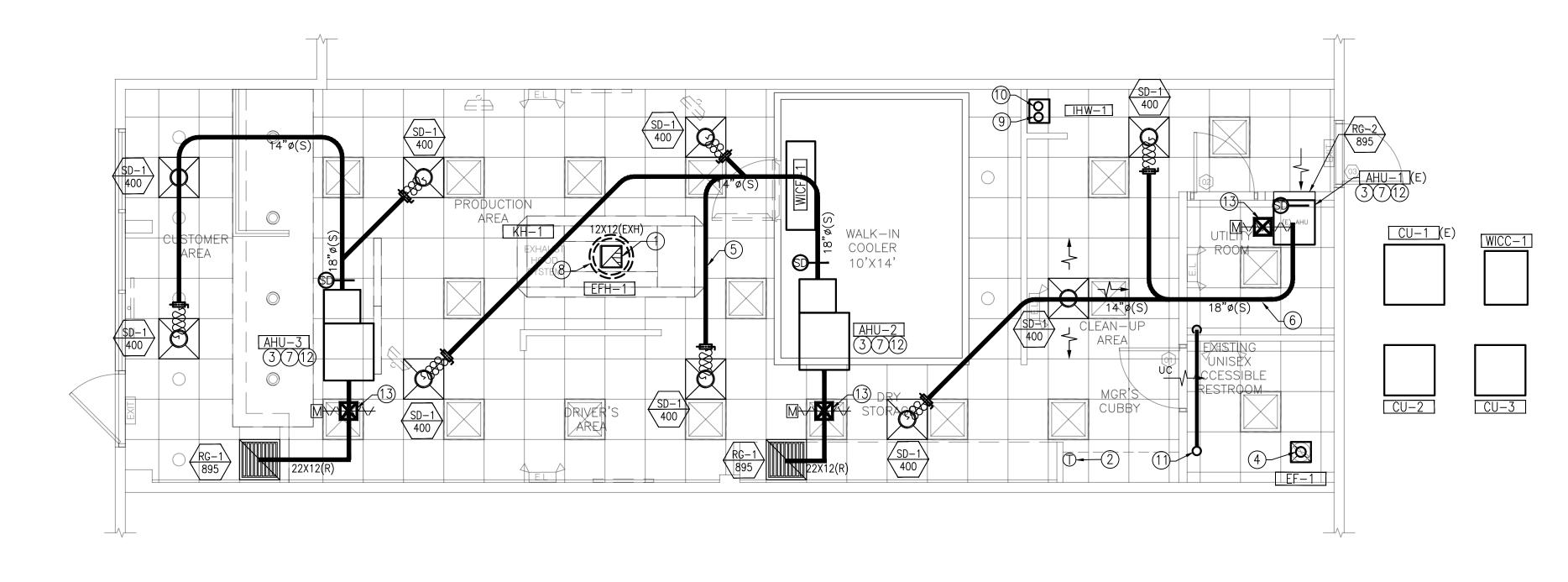


OR TO FIELD VERIFY CONDITION, ICATED IN THESE DOCUMENTS. TO BE CONSIDERED AS NEW

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

N

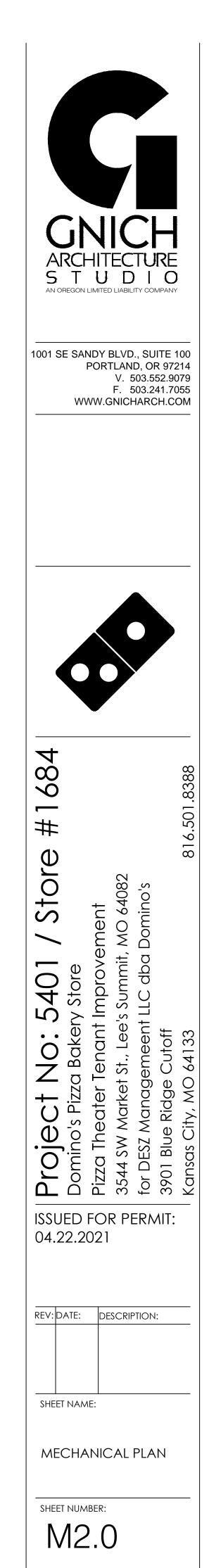


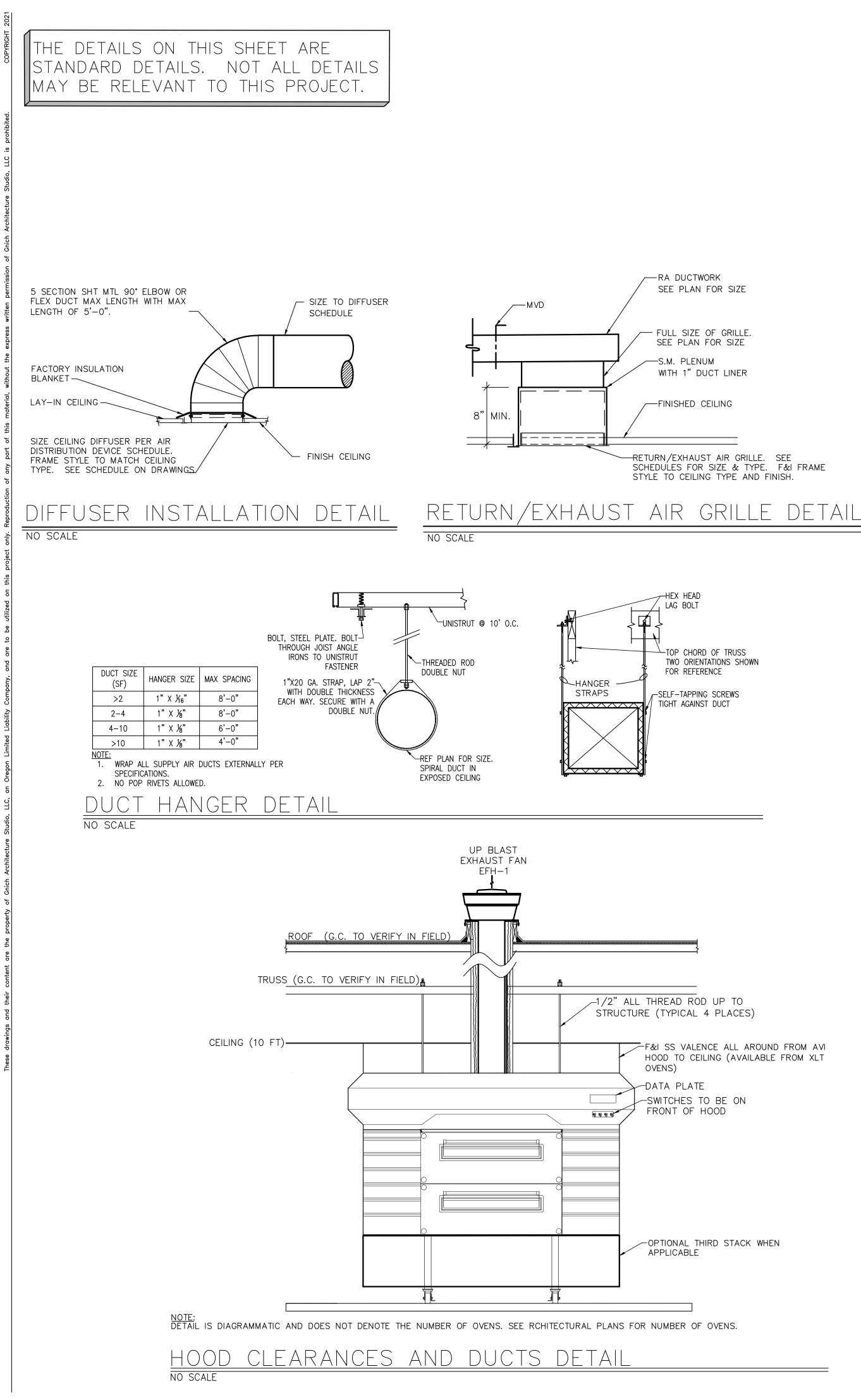


 $\frac{\text{MECHANICAL PLAN}}{\text{SCALE: 1/4" = 1'-0"}}$

<u>HVAC KEYED NOTES:</u>

- 1. DUCTWRAP TO BE F&I FOR DUCTWORK CONNECTED TO EXTERIOR EXHAUST FAN AS PER ASTM-E2336. RISER TO REDUCE AT FAN CONNECTION AS REQUIRED TO FIT DUCTWRAP. MAINTAIN 10 FEET MINIMUM CLEARANCE FROM ALL MA OR OA INTAKE DUCTS.
- 2. T'STAT FOR UNITS AHU-1, 2 & 3 WITH 24 HR, 7 DAYS PROGRAMMABLE THERMOSTATS AND 5 DEGREE DEADBAND TO BE INSTALLED AT 48" ABOVE THE FLOOR.
- 3. TEMPERATURE SENSORS TO BE INSTALLED IN COMBINED RETURN/OUTSIDE AIR INTAKE.
- 4. 6"Ø EXHAUST DUCT UP THRU ROOF. TERMINATE WITH FACTORY FABRICATED ROOF JACK. MAINTAIN 10 FEET MINIMUM CLEARANCE FROM ALL MA OR OA INTAKE DUCTS.
- 5. BRANCHES TO BE FLEX DUCT OR RIGID DUCT (TYP). FLEX DUCT RUNS NOT TO EXCEED 5'.
- 6. INTERIOR SUPPLY AND RETURN TRUNK DUCTS TO BE FIBERBOARD OR SHEET METAL (TYP).
- DUCT RISER TO BE FULL SIZE OF UNIT'S DUCT CONNECTION.
 OUTLINE OF EQUIPMENT ON ROOF.
- 9. RUN FLUE VENT UP THRU ROOF. TERMINATE WITH FACTORY FABRICATED ROOF JACK. MANUFACTURER'S CONCENTRIC ROOF JACK FOR FLUE VENT/COMBUSTION AIR IS ACCEPTABLE. MAINTAIN 10 FEET MINIMUM CLEARANCE FROM ALL MA OR OA INTAKE DUCTS.
- 10. RUN COMBUSTION AIR VENT UP THRU ROOF. SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR SIZE.
- 11. RUN DRYER VENT UP THRU ROOF. TERMINATE WITH FACTORY FABRICATED ROOF JACK. SEE MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR SIZE.
- 12. F&I SMOKE DETECTOR INDICATOR LIGHT ON UNIT. LABEL INDICATOR LIGHT. (TYP.)
- 13. 10X10 OA OPENING IN ROOF, TERMINATE WITH GOOSENECK. SEE OA INTAKE



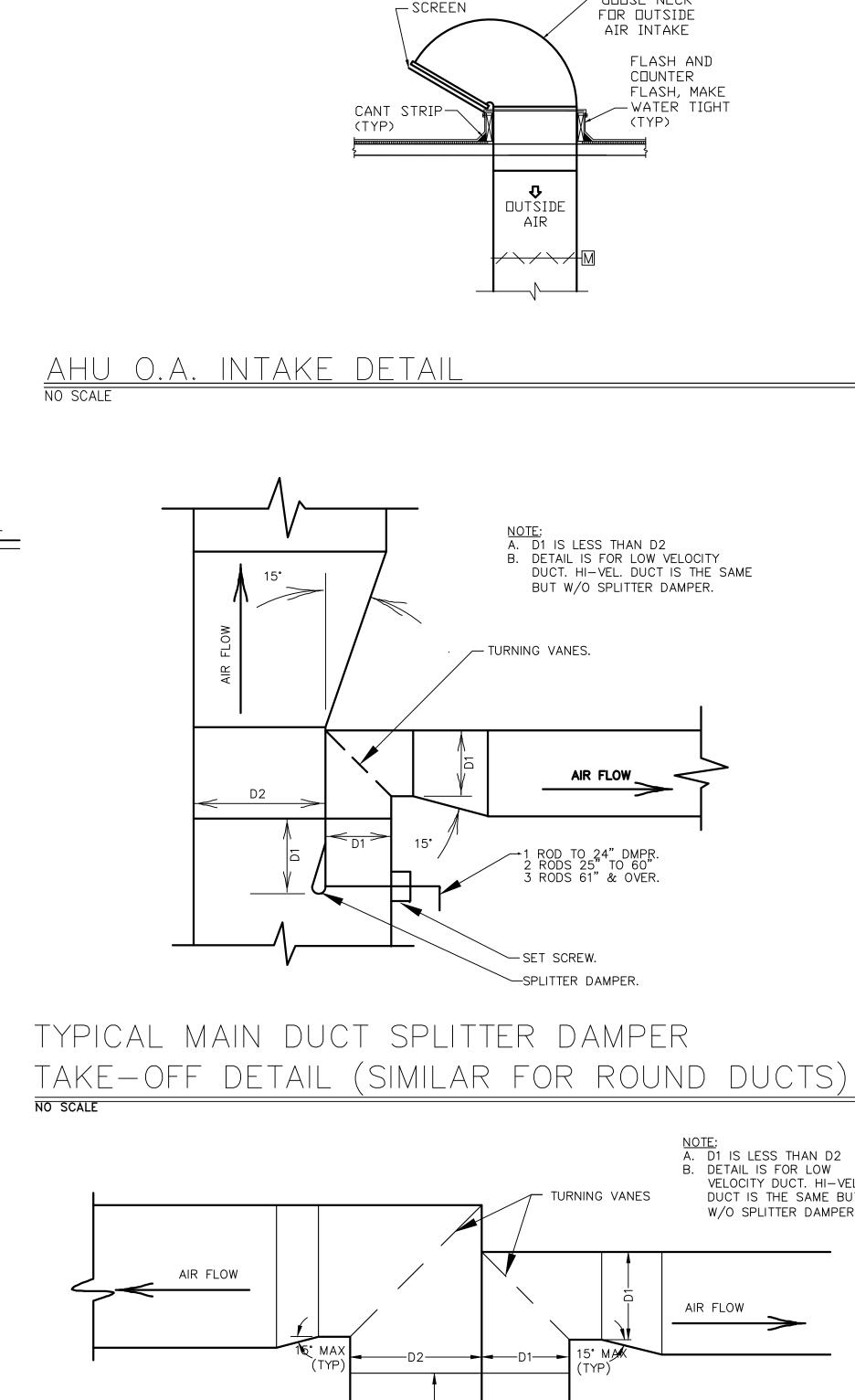


-RA DUCTWORK SEE PLAN FOR SIZE

- FULL SIZE OF GRILLE. SEE PLAN FOR SIZE

WITH 1" DUCT LINER

-FINISHED CEILING



GALV, INSECT

-GOOSE NECK

RETURN/EXHAUST AIR GRILLE. SEE SCHEDULES FOR SIZE & TYPE. F&I FRAME STYLE TO CEILING TYPE AND FINISH.

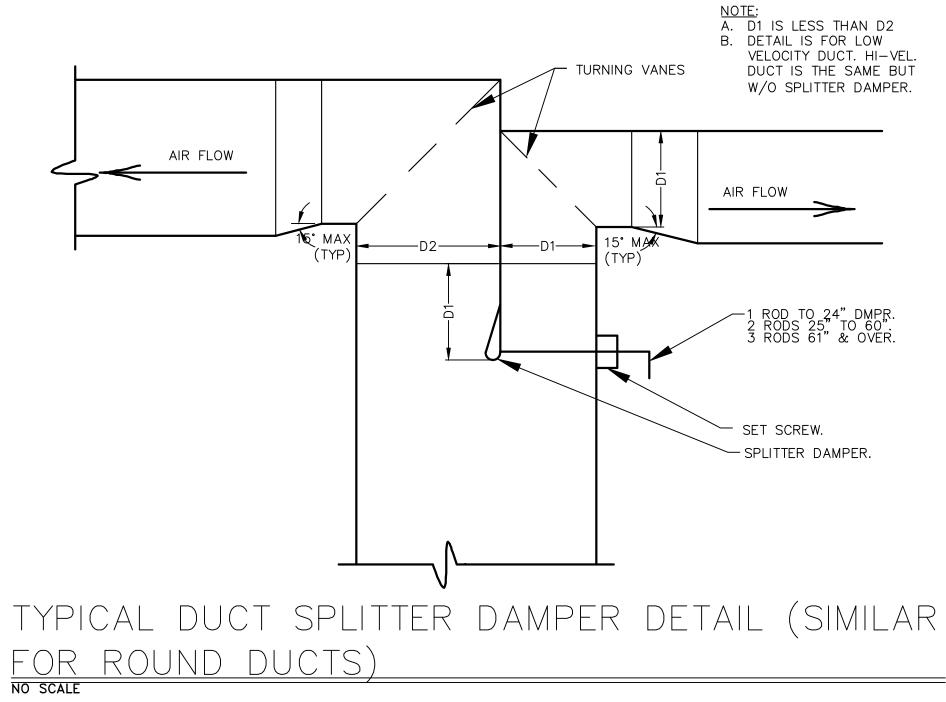
-TOP CHORD OF TRUSS TWO ORIENTATIONS SHOWN FOR REFERENCE

-SELF-TAPPING SCREWS TIGHT AGAINST DUCT

-F&I SS VALENCE ALL AROUND FROM AVI HOOD TO CEILING (AVAILABLE FROM XLT

-SWITCHES TO BE ON FRONT OF HOOD

-OPTIONAL THIRD STACK WHEN



TYPE II HOOD SEQUENCE OF OPERATIONS

- 1. AIR CONDITIONING UNITS (ACU)
- A. ALL AIR CONDITIONING UNITS, ROOF TOP (RTU), AND SPLIT SYSTEM CONDENSER UNITS (CU) AND AIR HANDLING UNITS (AHU), SHALL BE CONTROLLED BY A PROGRAMMABLE 24/7 SMART THERMOSTAT DEVICE. 1) DEVICE TO HAVE A 100 F (ADJ) DEADBAND, PROGRAMMABLE START AND STOP TIMES, 3-POSITION
- ON/OFF/AUTO SELECTOR SWITCH AND A 2 HOUR MANUAL OVERRIDE.
- 2. SUPPLY FANS (RTU & AHU)
- A. EACH UNIT'S SUPPLY AIR FANS ARE ENERGIZED AND THE OUTSIDE AIR (OA) DAMPERS MODULATE TO POSITION TO ADEQUATELY PRESSURIZE BUILDING.
- B. UNIT'S TEMPERATURE SENSOR, LOCATED IN THE RETURN AIR (RA) DUCT MONITORS THE MIXED (MA), RA & OA TEMPERATURE. IF THE ROOM TEMPERATURE IS NOT WITHIN 100F DEGREES OF ROOM TEMPERATURE SET POINTS, UNIT WILL GO INTO HEATING OR COOLING MODE TO MEET THE DESIRED TEMPERATURE SET POINTS.
- C. EACH UNIT'S FAN WILL CONTINUE TO RUN FOR 2 MINUTES (ADJ) AFTER THE HEATING OR COOLING ROOM TEMPERATURE SET POINT IS MET.
- D. COOLING MODE:
- 1) COMPRESSOR WILL BE ENERGIZED TO COOL THE AIR TO ROOM AIR TEMPERATURE. 2) COMPRESSOR (S) WILL SHUT OFF WHEN MECHANICAL COOLING IS NO LONGER NEEDED.
- E. HEATING MODE: 1) HEATING CONTROLS WILL ENERGIZE GAS BURNER IN FIRST STAGE AND IF NECESSARY TO SECOND
- STAGE HEATING TO BRING AIR TEMPERATURE UP TO THE HEATING ROOM TEMPERATURE SET POINT. 2) IF GAS HEATING IS NO LONGER NECESSARY, GAS BURNERS WILL SHUT OFF.
- 3. MIXED AIR TEMPERATURE IS WITHIN 10 F DEGREES OF ROOM TEMPERATURE:
- A. COMPRESSOR IS NOT ENERGIZED
- B. GAS BURNERS ARE NOT ENERGIZED.
- C. UNIT OPERATES IN THE ECONOMIZER MODE.
- 1) ECONOMIZER MODE: WHEN OUTDOOR WEATHER CONDITIONS, AS SENSED BY UNIT MOUNTED CONTROLS, ARE BELOW ITS SETTING, AND FREE COOLING IS AVAILABLE, ECONOMIZER MODE SHALL BE ENABLED AND DAMPERS SHALL POSITION TO ENABLE 100% OA ENTERING THE BUILDING. EA DAMPERS TO MODULATE TO EXHAUST THE OA NOT BEING EXHAUSTED BY THE EXHAUST FANS (EFH-1 & EF-X).
- 2) WHEN THE OA SET-POINT IS BELOW 55°F (ADJ.), THE MECHANICAL COOLING SHALL BE DISABLED. THE ECONOMIZER CONTROL SHALL RESET OA DAMPERS TO THE MINIMUM RUN OA INTAKE POSITION AND ENERGIZE THE MECHANICAL COOLING WHEN THE OA SET POINT IS EXCEEDED.
- 3) ADDITIONAL HIGH LIMIT SHUT OFF CONTROLS BELOW.
- a. OA TEMPERATURE > 75°F
- b. OA TEMPERATURE > RA TEMPERATURE
- c. (OA TEMPERATURE, OA RELATIVE HUMIDITY)>AIR
- d. OA HUMIDITY > RA HUMIDITY
- e. OA DEW POINT > 55°F
- f. OA TEMPERATURE > 75°F g. NO FIXED ENTHALPY CONTROL.
- 4. EXHAUST FANS
- A. REST ROOM EXHAUST FANS (EF) ARE TO BE STARTED BY AN OCCUPANCY SENSOR. WHEN THE OCCUPANT VACATES THE ROOM, THE FAN WILL REMAIN RUNNING FOR A MINIMUM OF 10 MINUTES (ADJ).
- 5. EXHAUST HOOD EXHAUST FAN (EFH-1) A. GAS OVEN IS MANUALLY STARTED.
- B. EXHAUST FAN EFH-1 AUTOMATICALLY ENERGIZES AND STARTS RUNNING.
- C. ONCE EFH-1 IS UP TO SPEED, APPROXIMATELY 5 SECONDS (ADJ), THE SUPPLY AIR UNIT (SAU)
- INTRODUCING THE LARGEST AMOUNT O OUTSIDE AIR (OA) INTO THE BUILDING STARTS. 1) ROOF TOP UNITS (RTU), AIR HANDLING UNITS (AHU) AND / OR MAKE-UP AIR UNITS (MAU) ARE CONSIDERED AS SUPPLY AIR UNITS (SAU).
- 2) IF THERE IS A DEDICATED MAKE-UP AIR UNIT PROVIDING OA TO A SELF-COMPENSATING HOODS, THIS UNIT SHALL BE THE FIRST UNIT STARTED.
- D. AFTER A 5 SECOND (ADJ) INTERVAL, THE SAU BRING IN THE NEXT LARGEST AMOUNT OF OA INTO THE BUILDING STARTS.

B. ON ALL SUPPLY AIR FANS OA DAMPERS CLOSE TO MINIMUM ALLOWED OA POSITION AND THE EA DAMPER IS

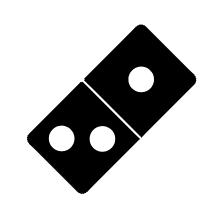
- E. THIS PROCESS CONTINUES UNITL ALL OF THE SAU'S HAVE BEEN STARTED.
- 6. WHEN GAS OVEN IS TURNED OFF:
- A. ANY DEDICATED MAKE-UP AIR UNIT STOPS.
- SET TO ALLOW SLIGHT BUILDING PRESSURIZATION.
- 7. UNOCCUPIED MODE:
- A. VENTILATION AND ECONOMIZER DAMPERS BECOME FULLY CLOSED. B. THERMOSTAT SENDS SIGNAL TO UNITS TO OPERATE IN SETBACK MODE UNTIL NEXT OCCUPIED MODE CYCLE PER THERMOSTAT PROGRAMMING.
- C. DURING HEATING SEASON, THE UNITS TO BE EQUIPPED WITH CONTROLS TO AUTOMATICALLY RESTART AND
- TEMPORARILY OPERATE TO MAINTAIN A TEMPERATURE ABOVE 55°F. D. DURING COOLING SEASON, THE UNITS TO BE EQUIPPED WITH CONTROLS TO AUTOMATICALLY RESTART AND
- TEMPORARILY OPERATE TO MAINTAIN A TEMPERATURE BELOW 85°F.
- E. UNITS SHALL BE SEQUENCED TO MAINTAIN SPACE TEMPERATURE AS FOLLOWS:
- 1) THE LARGEST TONNAGE UNIT, OR AS THE SEQUENCE NUMBER IN THE AIR CONDITIONING UNIT SCHEDULE INDICATES, SHALL RUN TO MAINTAIN THE SPACE SETBACK TEMPERATURE.
- 2) IF THE SPACE TEMPERATURE IS MEASURED AS 30°F ABOVE THE COOLING OR 30°F BELOW THE HEATING SETBACK TEMPERATURE, OR AS THE SEQUENCE NUMBER IN THE AIR CONDITIONING UNIT SCHEDULE INDICATES, SHALL START TO MAINTAIN THE SPACE SETBACK TEMPERATURE. WHEN THE TEMPERATURE DROPS TO 20°F BELOW THE SETBACK TEMPERATURE IN COOLING MODE OR ABOVE SETBACK TEMPERATURE IN HEATING MODE, THE SECOND UNIT SHALL TURN OFF.
- 8. AIR CONDITIONING UNIT MANUAL OVERRIDE MODE:
- A. VENTILATION AND ECONOMIZER DAMPERS BECOME POSITIONED AT THE MINIMUM OA SETTING.
- B. THERMOSTAT SENDS SIGNAL TO UNIT TO OPERATE IN NORMAL MODE.
- C. MANUAL OVERRIDE TIMER TO BE SET FOR A PERIOD OF 2 HOURS (ADJ.).
- 10. SMOKE DETECTORS

A. IF A FIRE ALARM SYSTEM IS PRESENT IN THE BUILDING, SMOKE DETECTORS TO NOTIFY FIRE ALARM SYSTEM IN THE EVENT OF SMOKE BEING DETECTED. B. NON-EMERGENCY OPERATION:

- 1) THERMOSTATS, COMPRESSOR AND FANS RUN AS NORMAL
- C. SMOKE DETECTED IN SUPPLY OR RETURN:
- 1) SMOKE DETECTOR GENERATE VISIBLE ALERT SIGNS.
- 2) SMOKE DETECTOR SENDS SIGNAL TO HVAC SYSTEM TO SHUT OFF.
- 3) AIR CONDITIONING AND MAKE-UP AIR UNITS TO HAVE FANS AND COMPRESSORS DE-ENERGIZE.



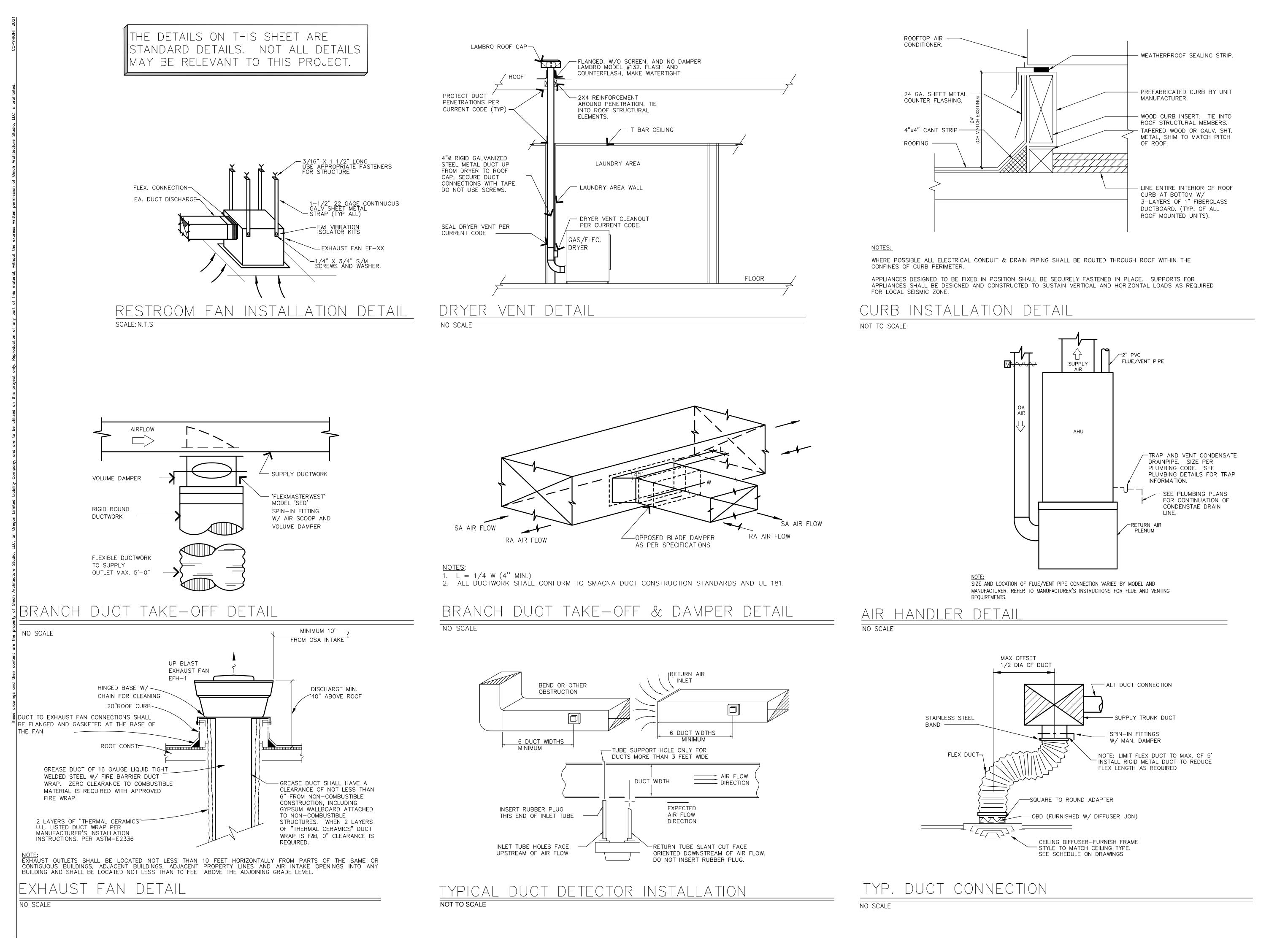
1001 SE SANDY BLVD., SUITE 100 PORTLAND, OR 97214 V. 503.552.9079 F. 503.241.7055 WWW.GNICHARCH.COM



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e #1684					816.501.8388
Project No: 5401 / Store #1684 Domino's Pizza Bakery Store	Pizza Theater Tenant Improvement	3544 SW Market St., Lee's Summit, MO 64082	for DESZ Managemeent LLC dba Domino's	3901 Blue Ridge Cutoff	Kansas City, MO 64133
ISSUED 04.22.2	021		EKN	/11:	
REV: DATE:		SCRIF		l:	
MECHA AND SEQUEN OPERAT	CE ION	OF	DET	AILS	

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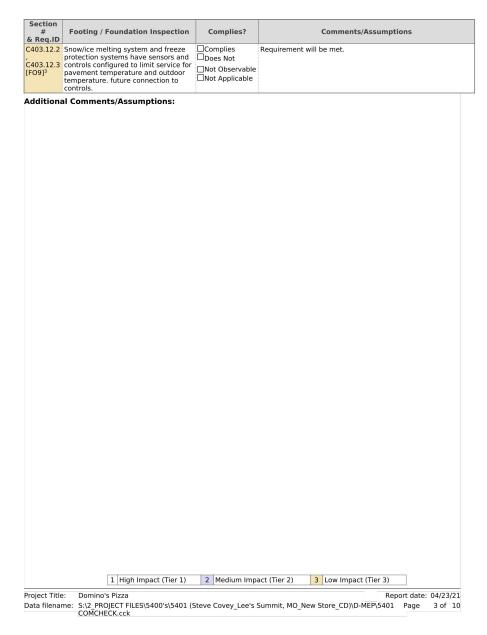
ARCHITECTURE STUDIO AN OREGON LIMITED LIABILITY COMPANY 1001 SE SANDY BLVD., SUITE 100 PORTLAND, OR 97214 V. 503.552.9079 F. 503.241.7055 WWW.GNICHARCH.COM ∞ S 501 _ # 8 Store /ement it, MO 64082 a Domino's dba Ë, 3401 Store Impro[,]'s Summ e's Sun ent LLC ery . nt L Za Bak -en St., σ C† s Pizz(ater Ма 0'S Ð \mathbb{O} SW Proj. Pizza 3544 S 901 for **ISSUED FOR PERMIT:** 04.22.2021

REV: DATE: DESCRIPTION: SHEET NAME: **MECHANICAL** Details

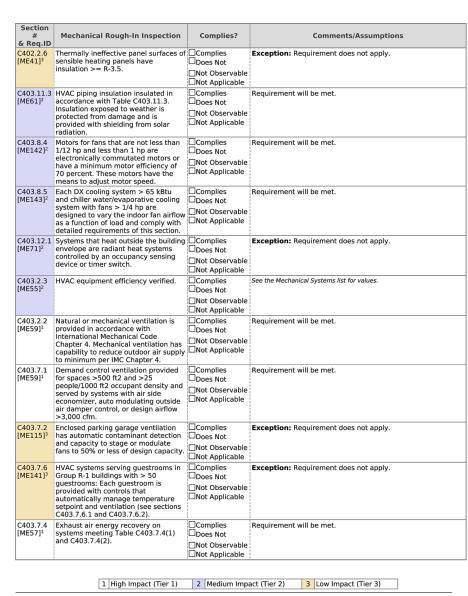
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V	Mechanical (Complia	nce Certificate		Inspection Energy Code: 2018 IE		t
Project In Energy Cod	Information de: 2018 IEC	с		Text in the " requirement	nts: 100.0% were addressed Comments/Assumptions" colum , the user certifies that a code r	directly in the COMch in is provided by the use requirement will be met	r in the COMcheck Requirements screated how that is documented, or that a
Project Title Location: Climate Zon	ne: Lees Sun 4a	nmit, Missouri		Section #	ned. Where compliance is itemi Plan Review	Zed in a separate table, Complies?	a reference to that table is provided. Comments/Assumptions
Project Type Constructio		r/Agent:	Designer/Contractor:	[PR2] ¹ ca	ins, specifications, and/or Iculations provide all information th which compliance can be	Complies Requir	ement will be met.
3544 SW Lee's Sur	mmit, MO 64082 Dom 3903	Z Managment LLC d nino's 1 Blue Ridge Cutoff sas City, MO 64133	ba	sy do sta	termined for the mechanical stems and equipment and cument where exceptions to the andard are claimed. Load Iculations per acceptable	□Not Applicable	
Quantity	ical Systems List System Type & Description RTU-2&3 (Single Zone):			en ha C103.2 Pla	gineering standards and ndbooks. Ins, specifications, and/or Iculations provide all information	□Complies Requir □Does Not	ement will be met.
2	Heating: 1 each - Central Furnace, Gas, Car Proposed Efficiency = 92.00% Et, Require Cooling: 1 each - Split System, Capacity = 3	ed Efficiency: 80.00 % 6 kBtu/h, Air-Cooled Co	ondenser, No Economizer, Economizer exception: None	wi de he	th which compliance can be termined for the service water ating systems and equipment and cument where exceptions to the	Not Observable	
	Proposed Efficiency = 14.00 SEER, Requ Fan System: 1200 CFM Compliance (Mot Fans:	tor nameplate HP meth	od) : Passes	sta sy siz	andard are claimed. Hot water stem sized per manufacturer's ing guide. Comments/Assumptions:		
1	FAN 1 Supply, Constant Volume, 1200 CF IWH-1: Gas Instantaneous Water Heater, Capacity: No minimum efficiency requirement applie	0 gallons, Input Rating		Additional	comments/Assumptions.		
	ical Compliance Statement						
plans, spe designed t	cifications, and other calculations submi	tted with this permit	presented in this document is consistent with the building t application. The proposed mechanical systems have been 1.1.0 and to comply with any applicable mandatory				
Name - Tit	tie	Signature	Date				
					1 High Impact (Tier 1)	2 Medium Impact (Tie	r 2) 3 Low Impact (Tier 3)
Project Titl Data filena		Steve Covey_Lee's S	Report date: 04/23/21 Summit, MO_New Store_CD)\D-MEP\5401 Page 1 of 10	Project Title: Data filename	Domino's Pizza		Report date , MO_New Store_CD)\D-MEP\5401 Page
Section	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions	Section #	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
& Req.ID C403.7.5	Kitchen exhaust systems comply with		Comments/Assumptions Requirement will be met.	& Req.ID C405.6 [EL26] ² ele	Rough-In Electrical Inspection w-voltage dry-type distribution ectric transformers meet the nimum efficiency requirements of	Complies Requir	Comments/Assumptions
C403.11.1	supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria. 1 HVAC ducts and plenums insulated in accordance with C403 11 1 and	□Not Applicable □Complies	Requirement will be met.	Ta C405.7 Ele	nimum efficiency requirements of ble C405.6. cctric motors meet the minimum iciency requirements of Tables	□Not Observable □Not Applicable □Complies Requir	ement will be met.
[ME60] ²	accordance with C403.11.1 and constructed in accordance with C403.11.2, verification may need to occur during Foundation Inspection.	Does Not Not Observable Not Applicable		C4 Eff un pri	05.7(1) through C405.7(4). iciency verified through certification der an approved certification ogram or the equipment efficiency	□Does Not □Not Observable □Not Applicable	
C403.4.1. 4 [ME63] ²	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air	□Does Not □Not Observable	Exception: Requirement does not apply.	rat ma pro	ings shall be provided by motor anufacturer (where certification ograms do not exist).		tion: Requirement does not apply.
	temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <=	□Not Applicable		1 au [EL28] ² rei pe	calators and moving walks comply th ASME A17.1/CSA B44 and have tomatic controls configured to duce speed to the minimum rmitted speed in accordance with	Does Not Not Observable	
C403.3.3 [ME35] ¹	60F and cooling setpoint >= 80F. Hot gas bypass limited to: <=240 kBtu/h = 50% >240 kBtu/h = 25%	Does Not	Requirement will be met.	AS loc pa	MRE A17.1/CSA B44 or applicable al code when not conveying ssengers. tal voltage drop across the		ement will be met.
1	Air outlets and zone terminal devices have means for air balancing.	□Not Observable □Not Applicable □Complies □Does Not	Requirement will be met.	[EL29] ² co	mbination of feeders and branch cuits $\leq 5\%$.	Does Not Not Observable	
[ME53] ³ C403.5,	Refrigerated display cases, walk-in	□Not Observable □Not Applicable □Complies	Requirement will be met.	Additional	Comments/Assumptions:		
C403.5.2	 coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections 	Does Not Not Observable Not Applicable					
	1 High Impact (Tier 1)	2 Medium Impa	act (Tier 2)		1 High Impact (Tier 1)	2 Medium Impact (Tie	r 2) 3 Low Impact (Tier 3)
	1 High Impact (Tier 1) tle: Domino's Pizza ame: S:\2_PROJECT FILES\5400's\5401 (COMCHECK.cck	2 Medium Impa	ict (Tier 2) 3 Low Impact (Tier 3) Report date: 04/23/21 Summit, MO_New Store_CD)\D-MEP\5401 Page 6 of 10	Project Title: Data filename	1 High Impact (Tier 1) Domino's Pizza S:\2_PROJECT FILES\5400's\5401 (COMCHECK.cck)	2 Medium Impact (Tie (Steve Covey_Lee's Summit	r 2) 3 Low Impact (Tier 3) Report date , MO_New Store_CD)\D-MEP\5401 Page
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#	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
& Req.ID			
C404.5,	Heated water supply piping conforms	Complies	Requirement will be met.
C404.5.1, C404.5.2	to pipe length and volume requirements. Refer to section details.	Does Not	
[PL6] ³		Not Observable	
		□Not Applicable	
C404.5,	Heated water supply piping conforms	Complies	Requirement will be met.
	to pipe length and volume requirements. Refer to section details.	□Does Not	
[PL6] ³	requirements. Refer to section details.	□Not Observable	
		□Not Applicable	
	Pumps that circulate water between a	Complies	Exception: Requirement does not apply.
[PL7] ³	heater and storage tank have controls	Does Not	
	that limit operation from startup to <= 5 minutes after end of heating	□Not Observable	
	cycle.	□Not Applicable	
	Pumps that circulate water between a	Complies	Requirement will be met.
[PL7] ³	heater and storage tank have controls that limit operation from startup to		
	<= 5 minutes after end of heating	□Not Observable	
	cycle.	Not Applicable	
C404.7 [PL8] ³	Demand recirculation water systems have controls that start the pump	Complies Does Not	Exception: Requirement does not apply.
	upon receiving a signal from the	□ Not Observable	
	action of a user of a fixture or appliance and limits the temperature		
	of the water entering the cold-water	Litter (ppincasic	
	piping to 104°F.		
C404.7	Demand recirculation water systems	Complies	Requirement will be met.
[PL8] ³	have controls that start the pump upon receiving a signal from the	Does Not	
	action of a user of a fixture or	□Not Observable	
		□Not Applicable	
	appliance and limits the temperature		
Additiona	appliance and limits the temperature of the water entering the cold-water piping to 104°F.		
Additiona	of the water entering the cold-water piping to 104°F.		
Additiona	of the water entering the cold-water piping to 104°F.	2 Medium Impr	act (Tier 2) 3 Low Impact (Tier 3)
Additiona	of the water entering the cold-water piping to 104°F. Al Comments/Assumptions:		act (Tier 2) 3 Low Impact (Tier 3) Report date: 04/23/2



# & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3,	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.2.2 [FI27] ³	HVAC systems and equipment capacity does not exceed calculated loads.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.2.4. 1 [FI47] ³	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.4.1. 2 [FI38] ³	Thermostatic controls have a 5 °F deadband.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.2.4. 1.3 [FI20] ³	Temperature controls have setpoint overlap restrictions.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C403.2.4. 2 [FI39] ³	Each zone equipped with setback controls using automatic time clock or programmable control system.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
2.1,	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2- hour occupant override, 10-hour backup	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
C403.2.4. 2.3 [FI41] ³	Systems include optimum start controls.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C404.3 [FI11] ³	Heat traps installed on supply and discharge piping of non-circulating systems.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C404.4 [FI25] ²	All piping insulated in accordance with section details and Table C403.11.3.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
C408.1.1 [FI57] ¹	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	Complies Does Not Not Observable Not Applicable	Requirement will be met.
	1 High Impact (Tier 1)	2 Medium Imp	act (Tier 2) 3 Low Impact (Tier 3)

Section #	Final Inspection	Complies?	Comments/Assumptions
& Req.ID			
C408.2.1 [FI28] ¹	Commissioning plan developed by registered design professional or	Complies Does Not	Requirement will be met.
	approved agency.	□Not Observable □Not Applicable	
1	HVAC equipment has been tested to ensure proper operation.	Complies Does Not	Requirement will be met.
[FI31] ¹		□Not Observable □Not Applicable	
2	HVAC control systems have been tested to ensure proper operation,	Complies	Requirement will be met.
[FI10] ¹	calibration and adjustment of controls.	□Not Observable □Not Applicable	
[FI29] ¹ cor	Preliminary commissioning report completed and certified by registered	□Complies □Does Not	Requirement will be met.
	design professional or approved agency.	□Not Observable □Not Applicable	
1 submitted within	Furnished HVAC as-built drawings submitted within 90 days of system	□Complies □Does Not	Requirement will be met.
[FI7] ³	acceptance.	□Not Observable □Not Applicable	
3	An air and/or hydronic system balancing report is provided for HVAC	□Complies □Does Not	Requirement will be met.
[FI43] ¹	systems.	□Not Observable □Not Applicable	
4	Final commissioning report due to building owner within 90 days of	□Complies □Does Not	Requirement will be met.
[FI30] ¹	receipt of certificate of occupancy.	□Not Observable □Not Applicable	
Additiona	al Comments/Assumptions:		

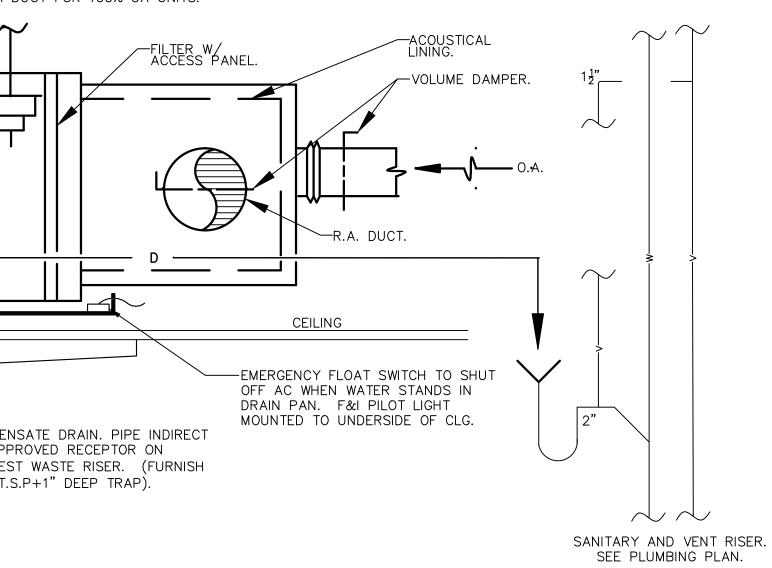
 1
 High Impact (Tier 1)
 2
 Medium Impact (Tier 2)
 3
 Low Impact (Tier 3)

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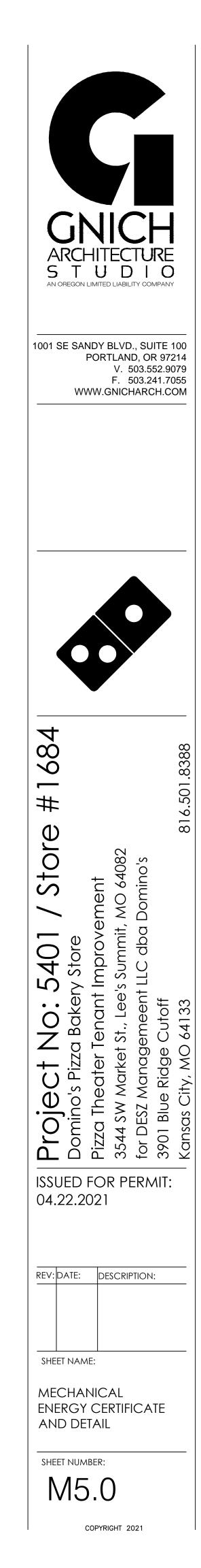
Project Title: Domino's Pizza

AIR PLENUM FULL SIZE OF NNECTION. DUCT FOR 100% OA UNITS.



Project Title: Domino's Pizza Report date: 04/23/21 Data filename: S:\2_PROJECT FILES\5400's\5401 (Steve Covey_Lee's Summit, MO_New Store_CD)\D-MEP\5401 Page 5 of 10 COMCHECK.cck

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MECHANICAL SPECIFICATIONS

WORK INCLUDED -

ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY FOR THE INSTALLATION OF AN OPERATING HVAC SYSTEM INCLUDING HVAC EQUIPMENT, DUCTWORK, GRILLES, REGISTERS, CONTROL AND RELATED ITEMS AS REQUIRED OR SPECIFIED. OBTAIN AND PAY FOR BUILDING PERMITS, FEES, TESTS, AND INSPECTIONS REQUIRED IN CONNECTION WITH WORK. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH ALL GOVERNING CODES AND ORDINANCES. THE FINAL PRODUCT SHALL BE A COMPLETE WORKING SYSTEM.

GENERAL

ALL HVAC EQUIPMENT AND ACCESSORIES SHALL BE INSTALLED AS PER MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE DRAWINGS ARE GENERALLY DIAGRAMMATIC, AND ARE INTENDED TO CONVEY SCOPE OF WORK AND TO INDICATE GENERAL ARRANGEMENT OF EQUIPMENT, DUCTS AND PIPING. THEY ARE NOT INTENDED TO SHOW EVERY OFFSET OR FITTINGS OR STRUCTURAL CONFLICT THAT MAY BE ENCOUNTERED DURING INSTALLATION OF WORK. DO NOT SCALE DRAWINGS. THE LOCATION OF ALL DUCTWORK, EQUIPMENT AND RELATED ITEMS SHALL BE VERIFIED IN THE FIELD PRIOR TO FABRICATION. THE EQUIPMENT AND DUCTWORK/DIFFUSER LOCATIONS AS SHOWN ARE ACCURATE TO THE BEST OF OUR KNOWLEDGE. HOWEVER, IN SOME INSTANCES, THE EQUIPMENT ITEM MAY VARY FROM WHAT IS SHOWN. VERIFY ALL CRITICAL DIMENSIONS AND ROUGH-IN REQUIREMENTS WITH THE EQUIPMENT SUPPLIER PRIOR TO CONSTRUCTION. FAILURE OF THE CONTRACTOR TO VERIFY THESE DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATION'S DIRECTLY UPON THE CONTRACTOR.

SUBSTITUTIONS

IF THE CONTRACTOR DESIRES TO USE EQUIPMENT AND/OR MATERIAL OF EQUAL QUALITY OTHER THAN THAT SPECIFIED, HE SHALL HAVE REQUESTED, IN WRITING, APPROVAL OF EACH SUCH SUBSTITUTION AND RECEIVED APPROVAL PRIOR TO BID OPENING. A CONTRACTOR OFFERING A SUBSTITUTION SHALL ACCEPT RESPONSIBILITY FOR ITS EFFECT ON THE WORK OF ALL TRADES. THE CONTRACTOR WHO REQUESTED SUCH SUBSTITUTION SHALL PAY ALL COST AND CHANGES RESULTING FROM THE INCLUSION OF SUBSTITUTIONS.

DISCREPANCIES - IN THE EVENT THAT THE CONTRACTOR FINDS DISCREPANCIES OR OMISSIONS, OR IS IN DOUBT AS TO THE EXACT MEANING OF THE PLANS AND/OR SPECIFICATIONS, HE SHALL, BEFORE COMMENCING WORK, CONTACT THE ARCHITECT FOR CLARIFICATION.

FIRE/DRAFT STOP SURVEY

THE CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS TO VERIFY THE LOCATION OF ALL FIRE AND/OR DRAFT BARRIERS IN THIS PROJECT PRIOR TO CONSTRUCTION. F&I UL AND LOCAL CODE APPROVED FIRE/SMOKE DAMPERS AND MECHANICAL PIPING PENETRATION, CONSTRUCTION MATERIALS AND INSTALLATION METHODS FOR BARRIER RATING ENCOUNTERED. INCLUDE RATED ACCESS PANELS FOR EACH DAMPER. FAILURE OF THE CONTRACTOR TO VERIFY REQUIRED FIRE/DRAFT BARRIER REQUIREMENTS PRIOR TO BIDDING THESE DOCUMENTS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATIONS OR REVISIONS DIRECTLY ON THE CONTRACTOR.

ACCEPTABLE MANUFACTURERS

THE FOLLOWING IS A LIST OF MANUFACTURERS WHOSE EQUIPMENT AND HVAC MATERIALS ARE ACCEPTABLE, SUBJECT TO CONFORMANCE WITH CONTRACT DOCUMENTS. VERIFY THAT THE EQUIPMENT WILL MEET ALL CAPACITIES, SPACE ALLOCATIONS, AND THAT THE WEIGHTS WILL NOT EXCEED STRUCTURAL DESIGN LOADS.

- HVAC EQUIPMENT: TRANE, CARRIER, PAYNE, YORK, DAY & NIGHT, LENNOX, RUUD AND ICP COMMERCIAL.
- DUCT & PIPE INSTALLATION: KNAUF, OWENS-CORNING, MANVILLE, CERTAIN-TEED AND PPG
- EVAPORATE COOLERS: ARVIN, GOETTL MASTER COOL, UNITED METAL PRODUCTS
- MAKE-UP AIR UNITS: ARIES, REZNOR, WESTERN AND STERLING

HVAC CONTROLS: HONEYWELL, BARBER-COLEMAN, ROBERT SHAW, OR HVAC EQUIPMENT SUPPLIER FURNISHED

- GRILLES, REGISTERS, DIFFUSERS & LOUVERS: ANEMOSTAT, KRUEGER, METAL-AIRE, TITUS, RUSKIN AND PENN ACCESS DOORS: MILCOR, VENTGAB AND POTTER-ROEMER
- FLEXIBLE DUCT: GENFLEX, THERMAFLEX, OR EQUIVALENT
- EXHAUST FANS: GREENHECK, ACME, ILG, LOREN COOK, PENN AND BROAN
- SMOKE & FIRE DAMPERS: RUSKIN, PHILLIPS AND AIR BALANCE

AIR CONDITIONING UNITS

SELF CONTAINED OR SPLIT SYSTEM: ELECTRIC/HEAT PUMP AIR CONDITIONING AND ELECTRIC RESISTANCE OR GAS HEATING SECTION. TYPE, CAPABILITIES AND RATING INDICATED ON THE DRAWINGS, ARI, AND/OR AGA CERTIFIED, UL LISTED. INCLUDE FACTORY ACCESSORIES NECESSARY TO MAKE EQUIPMENT COMPLETELY OPERATIONAL

EVAPORATIVE COOLER UNITS -

FURNISH AND INSTALL EVAPORATIVE COOLERS. EACH UNIT SHALL BE COMPLETE WITH BLOWER AND MOTOR WITH STARTERS. F&I SNAP LOCK PAD FRAMES. UNDERCOATING OF RESERVOIR, STRAINER BASKET, FLOAT KIT, WATER CONNECTION KIT, "AQUATROL" BLEED CONTROL PUMP. MODELS AND CAPACITIES AS INDICATED ON DRAWINGS, APPROVED UNITS SHALL BE CERTIFIED FOR AIR DELIVERY OR BE INCREASED IN SIZE TO MEET DESIGN STANDARDS INCLUDE FACTORY ACCESSORIES NECESSARY TO MAKE EQUIPMENT COMPLETELY OPERATIONAL. COOLER SHALL BE CONNECTED TO A SYSTEM OF DRAINAGE TO FACILITATE THE DRAINING OF COOLER AND THE BLEED-OFF LINES. LINES SHALL BE TYPE "M" COPPER. TERMINATE DRAINAGE LINES AS INDICATED ON DRAWINGS. EVAPORATIVE COOLING EQUIPMENT SHALL BE U.L. LISTED AND MUST HAVE A PERMANENTLY ATTACHED LABEL.

HVAC EQUIPMENT DRAINS

TO BE INSTALLED AS INDICATED OR REQUIRED. USE TYPE "M" COPPER TUBING AND WROUGHT COPPER MECHANICAL FITTINGS. EXTEND DRAINS TO NEAREST CODE APPROVED RECEPTOR, LAVATORY TAILPIECE (FURNISHED BY PLUMBER) OR DRAIN OUTSIDE IN PLANTER AREA. SLOPE DRAIN AT A MINIMUM OF 1/8" PER FT.

NOTE: INSULATE ALL CONDENSATE DRAIN LINES ABOVE CEILING.

NOTE: CONTRACTOR OPTION TO USE PVC WITH OWNERS APPROVAL. SCHEDULE 40 PVC ACCEPTABLE WHERE CONCEALED WITHIN STRUCTURE. NO PVC PIPING ABOVE ROOF OR AT EXTERIOR OF BUILDING.

TEMPERATURE CONTROL SYSTEM AS INDICATED OR REQUIRED. F&I THERMOSTAT AND SUB BASE, WITH HINGED AND LOCKABLE OPAQUE COVER(PUBLIC AREAS ONLY). CONTROLS SHALL BE FURNISHED AS RECOMMENDED BY HVAC EQUIPMENT SUPPLIER, SUITABLE FOR APPLICATION, UNLESS OTHERWISE INDICATED ON THE DRAWINGS. CONTRACTOR TO COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH THE ARCHITECT/OWNER.

- NOTE: CONTRACTOR TO F&I PROGRAMMABLE THERMOSTAT.
- NOTE: EACH HEATING AND COOLING SYSTEM SHALL HAVE AT LEAST ONE SOLID-STATE PROGRAMMABLE THERMOSTAT. THE THERMOSTAT SHALL HAVE THE CAPABILITY TO SET BACK OR SHUT DOWN THE SYSTEM BASED ON DAY OF THE WEEK AND TIME OF DAY, AND F&I A READILY ACCESSIBLE MANUAL OVERRIDE THAT WILL RETURN TO THE PRE-SETBACK OR SHUTDOWN WITHOUT REPROGRAMMING.

EXHAUST FANS

SIZE, CAPACITIES, AND TYPE AS INDICATED ON THE DRAWINGS. FURNISH COMPLETE WITH FACTORY CURBS/ROOF CAPS, BAROMETRIC DAMPER, SPEED CONTROL, DISCONNECT, STARTER (IF REQUIRED) AND BIRD SCREEN. FURNISH ROOF MOUNTED FANS WITH INSULATED ROOF CURB. F&I CEILING MOUNTED FANS WITH WALL/ROOF CAP. NOTE: ALL EXHAUST SYSTEMS MUST HAVE DAMPERS THAT ARE AUTOMATICALLY CLOSED WHILE THE EQUIPMENT IS NOT OPERATING.

GRILLES, DIFFUSERS AND REGISTERS

SIZE, CAPACITIES, AND TYPE AS INDICATED ON THE DRAWINGS. INSTALL IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. F&I ALUMINUM TYPE FOR EVAPORATIVE COOLERS AND AREAS SUBJECT TO MOISTURE. F&I EXTRACTORS BEHIND ALL SUPPLY REGISTERS.

NOTE: EACH SUPPLY AIR OUTLET OR DIFFUSER MUST HAVE ITS OWN BALANCING DEVICE. ACCEPTABLE BALANCING DEVICES INCLUDE ADJUSTABLE DAMPERS LOCATED WITHIN THE DUCTWORK, TERMINAL DEVICES AND SUPPLY AIR DIFFUSERS. EACH BALANCING DEVICE OR OTHER MEANS OF SUPPLY AIR ADJUSTMENT USED IN BALANCING SHALL BE FURNISHED WITH ACCESS.

DUCTWORK -

ALL DUCTWORK INSTALLATIONS MUST CONFORM TO REQUIREMENTS OF THE LATEST EDITION OF THE CODE. ALL LOW PRESSURE HEATING AND AIR CONDITIONING DUCTWORK SHALL BE FABRICATED FROM LOCK FORMING PRIME GRADE GALVANIZED STEEL SHEETS (MAKE-UP AIR DUCTWORK CONVEYING EVAPORATIVE COOLED AIR SHALL BE FABRICATED FROM ALUMINUM SHEETS), AND INSTALLED BY SKILLED MECHANICS IN STRICT CONFORMANCE WITH THE LATEST SMACNA MANUAL. CROSS BREAK ALL SIDES OF DUCTS. SUPPORT ALL DUCTWORK FROM OVERHEAD STRUCTURE WITH STRAP IRON OR ANGLES. ALL DUCT DIMENSIONS ARE NET FREE AREA AND DO NOT INCLUDE ALLOWANCE FOR INSULATION. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK MUST BE SECURELY SEALED USING WELDMENTS, MECHANICAL FASTENERS WITH SEALS, GASKETS, OR MASTICS, MESH AND MASTIC SEALING SYSTEMS, OR TAPES. TAPES AND MASTICS MUST BE LISTED AND LABELED IN ACCORDANCE WITH U.L. 181A OR U.L. 181B.

HORIZONTAL AND VERTICAL DUCT SUPPORTERS -REFER TO CURRENT CODE EDITION FOR DUCT SUPPORTS

DUCTWORK FABRICATION

F&I CONNECTIONS BETWEEN EQUIPMENT AND DUCTWORK (DURODYNE "GRIP LOCK" OR EQUAL). F&I SHEET METAL SHIELDED OVER EXPOSED JOINTS. COVER ALL JOINTS, SEAMS AND LOCKS ON INTERIOR AND EXTERIOR DUCTWORK WITH 4 OZ. CANVAS SATURATED WITH VINYL ACRYLIC DUCT SEALANT (UL LISTED, FLAME SPREAD 0) TO MAKE AIR TIGHT. WHERE DUCTS PASS THROUGH THE WALLS OR ROOF, FLASH AND COUNTER FLASH TO LEAVE WATERTIGHT INSTALLATION. PAINT ALL EXPOSED DUCTWORK TO MATCH SURROUNDING CONSTRUCTION OR AS RECOMMENDED BY ARCHITECT. F&I AIRFOIL TURNING VANES ON ALL RIGHT ANGLE ELBOWS. F&I VOLUME AND SPLITTER DAMPERS WHERE SHOWN ON DRAWINGS AND AS REQUIRED. FLEXIBLE DUCTWORK SHALL BE OF FLEXIBLE WIRE REINFORCED FIBERGLASS DUCT (TYPE UL, CLASS 1), AND NYLON LINER AND COVER, CONNECTORS TO BE UL APPROVED. FLEXIBLE DUCTWORK SHALL BE LIMITED TO RUN-OUTS TO DIFFUSERS OF (5) FIVE FT. OR LESS, SUPPORTED WITH STRAP HANGERS.

DUCTWORK INSULATION

INSTRUCTIONS. ALL AIR DUCTS MUST BE INSULATED TO THE FOLLOWING LEVELS:

- CRAWL SPACES, UNHEATED BASEMENTS AND UNHEATED GARAGES.
- AND A MINIMUM OF R-12 INSULATION IN CLIMATE ZONES 5 THROUGH 8
- D. MECHANICAL FASTENERS AND SEALS, MASTICS, OR GASKETS MUST BE USED WHEN CONNECTING DUCTS TO FANS AND OTHER AIR DISTRIBUTION EQUIPMENT, INCLUDING MULTIPLE-ZONE TERMINAL UNITS.
- E. ALL JOINTS, LONGITUDINAL AND TRANSVERSE SEAMS, AND CONNECTIONS IN DUCTWORK MUST BE SECURELY SEALED USING WELDMENTS; MECHANICAL FASTENERS WITH SEALS, GASKETS, OR MASTICS; MESH AND MASTIC SEALING SYSTEMS; OR TAPES. TAPES AND MASTICS MUST BE LISTED AND LABELED IN ACCORDANCE WITH UL 181A AND SHALL BE MARKED "181A-P" FOR PRESSURE-SENSITIVE TAPE, "181A-M" FOR MASTIC OR "181A-H" FOR HEAT-SENSITIVE TAPE. TAPES AND MASTICS USED TO SEAL FLEXIBLE AIR DUCTS AND FLEXIBLE AIR CONNECTORS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED "181B-FX" FOR PRESSURE-SENSITIVE TAPE OR "181B-M" FOR MASTIC. UNLISTED DUCT TAPE IS NOT PERMITTED AS A SEALANT ON ANY METAL DUCTS. LOW PRESSURE HVAC DUCTWORK

LOW PRESSURE DUCTWORK TO BE ANY DUCTWORK AT 2" W.G. OR LESS. CONSTRUCT PARTITION FORMING PLENUMS OR SUCTION CHAMBERS OF #18 GAUGE WITH 1-1/2" x 1-1/2" x 3/16" GALVANIZED IRON ANGLES AND RIVETS FOR SEAM CONNECTIONS AND STIFFENING. ALL SUPPLY, RETURN AND EXHAUST DUCTS (AS NOTED) SHALL BE PRIME STEEL SHEETS HOT-DIPPED GALVANIZED OF THE FOLLOWING GAUGES:

UP TO 12" WIDE OR DIAMETER - #26

13" UP TO 30" WIDE OR DIAMETER - #24 31" UP TO 45" WIDE OR DIAMETER - #22

ALL EXHAUST DUCTWORK SHALL BE - #24

HVAC INTERLOCKS/ SMOKE DETECTORS

- SMOKE DETECTOR SHALL BE MOUNTED IN RETURN AIR DUCT. AUTOMATIC SHUT-OFF SHALL BE ACCOMPLISHED BY INTERRUPTING THE POWER SOURCE OF THE MECHANICAL UNIT UPON DETECTION OF SMOKE IN THE MAIN RETURN AIR DUCT, ACTIVATION OF ANY DETECTOR SHALL SHUT DOWN ALL UNITS WITHIN THE SYSTEM, SMOKE DETECTOR SHALL BE LABELED BY AN APPROVED AGENCY FOR AIR DUCT INSTALLATION AND SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. SUCH DEVICES SHALL BE COMPATIBLE WITH THE OPERATION VELOCITIES, PRESSURES, TEMPERATURE AND HUMIDITY OF THE SYSTEM. DETECTOR SHALL BE 120 V/1 PHASE (OR AS DIRECTED BY THE ELECTRICAL CONTRACTOR) AND U.L. LISTED. COORDINATE AS REQUIRED PRIOR TO ORDERING AND INSTALLING. DETECTOR SHALL BE FURNISHED AND INSTALLED BY MECHANICAL. LINE VOLTAGE BY ELECTRICAL. NOTE: IF A FIRE ALARM SYSTEM IS AVAILABLE, THE DUCT SMOKE DETECTOR(S) SHALL BE CONNECTED TO THE FIRE ALARM SYSTEM PER THE CURRENT MECHANICAL CODE. IF A FIRE ALARM SYSTEM IS NOT AVAILABLE F&I A VISIBLE AND AUDIBLE SUPERVISORY SIGNAL AT A CONSTANTLY SUPERVISED LOCATION TRIGGERED BY THE ACTIVATION OF A DUCT SMOKE DETECTOR. INCLUDE THE AIR DUCT DETECTOR TROUBLE INDICATOR (LED AT THE CEILING BELOW THE DUCT DETECTOR) AS REQUIRED BY THE CURRENT MECHANICAL CODE.
- NOTE: SMOKE DETECTORS ASSOCIATED WITH SMOKE DAMPERS AND HVAC SHUTOFFS SHALL BE TESTED BY AN APPROVED TESTING AGENCY OR A QUALIFIED THIRD PARTY SPECIAL INSPECTOR. THE SPECIAL INSPECTOR/TESTING AGENCY SHALL BE AN INDEPENDENT THIRD PARTY INDIVIDUAL OR FIRM AND SHALL NOT BE THE INSTALLING CONTRACTOR. A PROFESSIONAL ENGINEER SHALL SUBMIT A FINAL SIGNED AND SEALED REPORT TO THE MECHANICAL INSPECTOR PRIOR TO CITY ISSUANCE OF FINAL INSPECTION
- APPROVAL OR OCCUPANCY APPROVAL, INCLUDING CONDITIONAL OCCUPANCY APPROVAL. NOTE: IF A COMPLETE FIRE ALARM DETECTION SYSTEM IS INSTALLED IN THE BUILDING THEN SMOKE DUCT DETECTORS ARE NOT REQUIRED PER THE CURRENT MECHANICAL CODE, AS LONG AS THE FIRE ALARM SYSTEM IS INTERCONNECTED TO THE MECHANICAL UNITS TO SHUT DOWN IN THE EVENT OF FIRE ALARM ACTIVATION IN ACCORDANCE WITH THE CURRENT MECHANICAL CODE.

ELECTRICAL WORK -

MECHANICAL DIVISION SHALL FURNISH ALL MOTOR STARTERS REQUIRED FOR MECHANICAL EQUIPMENT, UNLESS INCLUDED AS AN INTEGRAL PART OF THE HVAC EQUIPMENT. F&I SUITABLE ENCLOSURE PER NEMA STANDARDS. ALL LOW VOLTAGE (24V) CONTROL WIRING OR THERMOSTATS AND OTHER CONTROL REQUIREMENTS TO BE THE RESPONSIBILITY OF MECHANICAL CONTRACTOR. ALL LINE VOLTAGE WIRING AND CONDUIT INCLUDING LOW VOLTAGE CONTROL CONDUIT TO BE INSTALLED BY ELECTRICAL CONTRACTOR. SMOKE DETECTORS TO BE WIRED BY THE ELECTRICAL CONTRACTOR.

OUTSIDE AIR REQUIREMENTS

LOCATE ALL OUTSIDE AIR/INTAKE AIR OPENINGS A MINIMUM OF 10'-0" FROM PLUMBING VENTS, EXHAUST FANS, AND/OR GAS FLUE VENTS. F&I OUTSIDE AIR GRILLE (FILTER IF REQUIRED) AND OBD.

CONTRACTOR TO BALANCE OUTSIDE AIR TO CFM SHOWN ON OUTSIDE AIR SCHEDULE. CONTRACTOR SHALL F&I A COPY OF AIR BALANCE TEST REPORT TO FIELD INSPECTOR PRIOR TO FINAL INSPECTION. VENTILATION SYSTEMS SHALL BE BALANCED BY AN APPROVED METHOD. A BALANCE REPORT SHALL VERIFY THAT THE VENTILATION SYSTEM IS CAPABLE OF SUPPLYING AIR FLOW RATES REQUIRED BY THE CURRENT ENERGY CODE.

SYSTEM START-UP/AIR BALANCE

BEFORE FINAL ACCEPTANCE, CONTRACTOR SHALL DEMONSTRATE THAT ALL APPARATUS IS FUNCTIONING PROPERLY IN ACCORDANCE WITH FACTORY START-UP RECOMMENDATIONS. AIR QUANTITIES SHALL BE BALANCED FOR EVEN TEMPERATURES THROUGHOUT CONTROLS AND/OR INTERLOCKS/SMOKE DETECTORS ADJUSTED, AND THE SYSTEM PLACED INTO OPERATION. AIR BALANCE WORK SHALL BE PERFORMED BY QUALIFIED PERSONNEL LISTED WITH NEBB OR AABC. FURNISH THE FOLLOWING START-UP BALANCE INFORMATION IN TWO (2) COPIES TO THE OWNER/ARCHITECT FOR REVIEW PRIOR TO PROJECT CLOSE: SUPPLY/EXHAUST CFM AT EACH DIFFUSER/REGISTER (USING FLOW HOOD), OUTSIDE AIR QUANTITY TO EACH HVAC UNIT, DISCHARGE/RETURN AIR TEMPERATURES AT THE HVAC UNIT (FOR BOTH HEATING AND COOLING MODE), AND THE HVAC MOTOR AMP DRAW. FURNISH OWNER WITH WRITTEN CERTIFICATION FROM THE HVAC EQUIPMENT SUPPLIER(S) THAT ALL EQUIPMENT HAS BEEN INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. INCLUDE THE COST OF ANY ADDITIONAL OPPOSED BLADE VOLUME DAMPERS, MOTOR SHEAVES, ETC. NECESSARY TO ACHIEVE AIR QUANTITIES LISTED. INCLUDE AN EXTENDED 90 DAY WARRANTY, DURING WHICH TIME THE ENGINEER MAY REQUEST A RECHECK OR RESETTING OF ANY AIR QUALITY, OR NOT MORE THAN TWO CHANGES OF NON-ADJUSTABLE SHEAVES TO OBTAIN DESIRED AIR QUANTITIES. CONTRACTOR SHALL MAKE ANY CHANGES IN PULLEYS, BELTS, OR ADDITIONAL DAMPERS REQUIRED FOR CORRECTED AIR BALANCE AS REQUIRED BY BALANCE AGENCY AT NO ADDITIONAL COST TO THE OWNER.

NSTRUCTIONS/ O&M MANUAL

THE CONTRACTOR SHALL INSTRUCT THE OWNER IN THE PROPER OPERATION AND MAINTENANCE OF ALL INSTALLED HVAC EQUIPMENT. THE CONTRACTOR SHALL FURNISH A MINIMUM OF TWO (2) BOUND OPERATING AND MAINTENANCE MANUALS TO THE OWNER AT THE COMPLETION OF THE PROJECT. THE MANUAL SHALL INCLUDE: EQUIPMENT CAPACITY (INPUT AND OUTPUT), CONTROL AND/OR INTERLOCK WIRING DIAGRAMS, SEQUENCE OF OPERATION, PREVENTATIVE MAINTENANCE SCHEDULE, NAME, ADDRESS AND PHONE NUMBER OF THE LOCAL PRODUCT REPRESENTATIVE.

GUARANTEE -

ALL LABOR AND MATERIALS FURNISHED OR INSTALLED UNDER THIS SECTION SHALL CARRY A WRITTEN ONE (1) YEAR GUARANTEE BY THE MECHANICAL CONTRACTOR TO THE OWNER, COVERING MATERIALS AND WORKMANSHIP IN FULL. FURNISH EXTENDED FIVE (5) YEARS FACTORY PARTS AND LABOR WARRANTY ON ALL AIR CONDITIONING COMPRESSORS. EXISTING HVAC EQUIPMENT, DUCTWORK AND/OR HVAC COMPONENTS REUSED IN THE JOB ARE NOT COVERED UNDER THIS WARRANTY.

ALL ACOUSTIC LINER TO BE MINIMUM 1.5 PCF DENSITY, WITH NFPA 90A APPROVED LINER OR COATING. THERMAI INSULATION SHALL BE MINIMUM 3/4 PCF DENSITY, WITH A MAXIMUM "K" FACTOR OF 0.30 AT 75DEGREES F AND SHALL HAVE A FLAME RETARDANT FOIL-SKIMKRAFT VAPOR BARRIER (FSK), FASTENED TO DUCTWORK WITH 16 GA. WIRE @ 12" O.C. ALL INSULATION SHALL HAVE A FLAME SPREAD RATING OF 25 OR LESS, AND A SMOKE DEVELOPED RATING OF 50 OR LESS. EXTERIOR HVAC DUCTWORK TO BE LINED WITH 2" DUCT LINER 1-1/2" PCF, K=0.28 AT 75DEGREES F, R=8 IN CLIMATE ZONES 1 THROUGH 4, AND R-12 IN CLIMATE ZONES 5 THROUGH 8. INTERIOR DUCTWORK BELOW CEILING INSULATION TO BE LINED WITH 1" DUCT LINER 1-1/2" PCF, K=0.28 AT 75DEGREES F, R=8 (MIN.), OR WRAP WITH 1-1/2" FIBERGLASS DUCT WRAP, 3/4 PCF, K=0.31 AT 75DEGREES F, R=8 (MIN.) AND FLAME RETARDANT FOIL-SKIMKRAFT VAPOR BARRIER (SKF). INTERIOR SHEET METAL DUCTWORK ABOVE CEILING INSULATION TO BE LINED WITH 2" DUCT LINER 1-1/2" PCF, K=0.28 AT 75DEGREES F, R=8 (MIN.) OR WRAP WITH FIBERGLASS DUCT WRAP, 3/4" PCF, K=0.31 AT 75DEGREES F, R=8 (MIN.). COMBINATION HEATING/COOLING MAKE-UP AIR DUCTWORK CONVEYING EVAPORATIVE COOLED AIR SHALL BE INSULATED ON THE EXTERIOR WITH 1-1/2" THICK GLASS FIBER RIGID BOARD WITH ALL SERVICE JACKET (MIN. 3 PCF DENSITY, K=0.23, R=8). RIGID INSULATION ON OUTDOOR DUCTWORK SHALL BE COVERED WITH A LAYER OF OPEN WEAVE GLASS CLOTH EMBEDDED BETWEEN TWO COATS OF WEATHERPROOF MASTIC OF NOT LESS THAN 1/8" TOTAL THICKNESS. DUCTWORK CONVEYING EVAPORATIVE COOLED AIR ONLY SHALL NOT BE INSULATED, DUCTWORK INSULATION SHALL COMPLY WITH REQUIREMENTS OF THE CURRENT ENERGY CODE EDITION AND SHALL BE INSTALLED BY LICENSED INSULATION CONTRACTOR. IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION

A. SUPPLY AND RETURN AIR DUCTS FOR CONDITIONED AIR LOCATED IN UNCONDITIONED SPACES (SPACES NEITHER HEATED NOR COOLED) MUST BE INSULATED WITH A MINIMUM OF R-6. UNCONDITIONED SPACES INCLUDE ATTICS,

B. SUPPLY AND RETURN AIR DUCTS AND PLENUMS MUST BE INSULATED TO A MINIMUM OF R-8 WHEN LOCATED OUTSIDE THE BUILDING IN CLIMATE ZONES 1 THROUGH 4, AND R-12 IN CLIMATE ZONES 5 THROUGH 8.

2. WHERE LOCATED WITHIN A BUILDING ENVELOPE ASSEMBLY, THE DUCT OR PLENUM SHALL BE SEPARATED FROM THE BUILDING EXTERIOR OR EXEMPT SPACES BY A MINIMUM OF R-8 INSULATION IN CLIMATE ZONES 1 THROUGH 4

EXCEPTION: DUCT INSULATION IS NOT REQUIRED ON DUCTS LOCATED WITHIN THE EQUIPMENT

EXCEPTION: DUCT INSULATION IS NOT REQUIRED WHEN THE DESIGN TEMPERATURE DIFFERENCE BETWEEN THE INTERIOR AND EXTERIOR OF THE DUCT OR PLENUM DOES NOT EXCEED 15DEGREES F.

F&I ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED TO INTERLOCK HVAC SUPPLY AND EXHAUST SYSTEMS SPECIFIED ON THE DRAWINGS OR REQUIRED BY THE CURRENT MECHANICAL CODE, FURNISH, INSTALL AND CONNECT SMOKE DETECTORS (APPROVED BY REGULATING AGENCY) ON THE RETURN SIDE OF ALL HVAC FANS EXCEEDING 2000 CFM OR AS REQUIRED PER LOCAL REGULATIONS TO SHUT DOWN FAN IF SMOKE IS DETECTED IN DUCTWORK.

NOTE: MINIMUM OSA REQUIREMENTS SHALL COMPLY WITH THE CURRENT MECHANICAL CODE.

MECHANICAL GENERAL NOTES

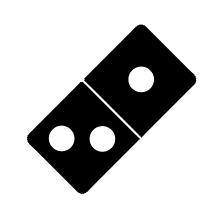
- 1. PRIOR TO THE CONTRACTOR ORDERING OR PLACING ANY AIR CONDITIONING EQUIPMENT, DUCTWORK, OR AIR DEVICE, HE SHALL VERIFY LOCATION OF PLACEMENT WITH STRUCTURAL DRAWINGS AND CONFIRM WEIGHTS, DISCHARGE CONFIGURATION, SIZES, ELECTRICAL CHARACTERISTICS AND ANY OTHER DIMENSIONAL DATA WHICH MIGHT AFFECT THE SUCCESSFUL INSTALLATION OF THE MECHANICAL SYSTEM.
- 2. FURNISH CLEARANCES AS PER MANUFACTURER'S RECOMMENDATIONS.
- 3. F&I EQUIPMENT IDENTIFICATION AS TO THE SPACE OR AREA SERVED.
- 4. REFER TO ARCHITECTURAL DRAWINGS FOR ACCESS TO ROOF INSTALLED MECHANICAL EQUIPMENT
- 5. PRIOR TO PENETRATION AND/OR INSTALLATION OF ANY ROOF TOP EQUIPMENT, CONTRACTOR IS TO COORDINATE WITH LANDLORD ROOF MONITOR. ALL ROOF WORK TO BE PERFORMED BY LANDLORD ROOF MONITOR CONTRACTOR. CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO COMMENCING WORK.
- 6. FIELD COORDINATE SIZE AND PLACEMENT OF DRAIN LINES REQUIRED FOR ROOFTOP HEAT PUMPS, EVAPORATIVE COOLERS, FURNACES, HUMIDIFIERS, ETC., WITH PLUMBING CONTRACTOR TO ROUGH-IN.
- 7. F&I VIBRATION ISOLATORS FOR ALL MECHANICAL EQUIPMENT SUPPORTED FROM STRUCTURE.
- 8. NOTIFY GENERAL CONTRACTOR AND/OR ARCHITECT OF ANY DISCREPANCIES PRIOR TO ROUGH-IN.
- 9. ALL HVAC EQUIPMENT, INCLUDING EVAPORATIVE COOLERS, SHALL BE UL, ETL AND/OR AGA LISTED.
- 10. F&I ALL EXHAUST AIR DUCTS WITH BACKDRAFT DAMPER. 11. F&I AN ELECTRICAL INTERLOCK FOR MAKE-UP AIR UNITS AND ASSOCIATED EXHAUST FANS AS REQUIRED. SEE
- SCHEDULES. 12. KITCHEN HOOD AND EXHAUST DUCTWORK TO CONFORM TO NFPA-96 STANDARDS AND THE CURRENT MECHANICAL CODE FOR DOMESTIC AND SECTION 506 FOR COMMERCIAL KITCHENS.
- 13. SLOPE ALL HORIZONTAL EXHAUST DUCTS AT 1/4" PER FOOT TOWARDS HOOD INTAKE.
- 14. F&I CLEAN-OUT ACCESS PANELS AS SHOWN HAVING A FIRE RESISTIVE RATING EQUAL TO SHAFT ENCLOSURE.
- 15. EXTERNAL WELD ALL JOINTS AND SEAMS OF ALL KITCHEN EXHAUST DUCTS.
- 16. MECHANICAL CONTRACTOR TO COORDINATE EXACT KITCHEN HOOD OPENINGS WITH KITCHEN CONTRACTOR PRIOR TO ANY CONSTRUCTION.
- 17. F&I FIRE DAMPERS AT ALL PENETRATIONS THROUGH FIRE RATED WALLS. CEILINGS AND FLOOR. FIRE DAMPER AND FIRE DAMPER INSTALLATION SHALL CONFORM TO LOCAL BUILDING AND MECHANICAL CODE REQUIREMENTS AND SMACNA STANDARDS. F&I WITH ACCESS DOOR AS REQUIRED.
- 18. FLUE AND COMBUSTION AIR DUCTS PENETRATING ROOF STRUCTURE SHALL BE ENCLOSED IN ONE-HOUR SHAFT. 19. ALL TEMPERATURE CONTROLS ARE TO BE TESTED, ADJUSTED AND CALIBRATED FOR PROPER OPERATION.
- 20. MOUNT ALL THERMOSTATS AT 48" THROUGH 54" ABOVE FINISHED FLOOR. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH THE ARCHITECT/OWNER. F&I WITH LOCKING COVER AS REQUIRED BY THE ARCHITECT AND/OR OWNER. F&I WITH PROGRAMMABLE THERMOSTAT.
- 21. INSTALL CLEANOUTS AT EVERY 90DEGREES TURN ON AIR CONDITIONING CONDENSATE DRAIN LINES. 22.KEEP ALL FLUES, VENTS THROUGH ROOF AND EXHAUST DUCTS A MINIMUM OF 10'-0" FROM OUTSIDE AIR INTAKES
- OR WINDOWS AND FROM ALL VERTICAL PORTIONS OF THE BUILDING.
- 23. ALL GAS VENTS SHALL BE U.L. LISTED TYPE 'B' DOUBLE WALL AS MANUFACTURED BY "METALBESTOS" OR EQUIVALENT.
- 24. COMBUSTION AIR DUCT OPENINGS TO BE COVERED WITH CORROSIVE RESISTANT SCREEN OF 1/4" MESH. 25. CONTRACTOR SHALL BALANCE AIR DISTRIBUTION TO WITHIN 10% OF VALUES LISTED ON DRAWINGS. CONTRACTOR SHALL FURNISH TENANT WITH A COPY OF FINAL HVAC AIR TEST AND BALANCE REPORT FROM INDEPENDENT NEBB ORABC CERTIFIED CONTRACTOR.
- 26. LIGHTING LOCATIONS TAKE PRECEDENCE OVER DIFFUSER LOCATION. CONTRACTOR SHALL MAKE NECESSARY ADJUSTMENTS TO DIFFUSERS TO AVOID ANY CONFLICT WITH LIGHTING LAYOUT. EXACT PLACEMENT OF DIFFUSERS AND REGISTERS TO BE COORDINATED WITH ARCHITECT AND CONTRACTORS.
- 27. UNDERCUT ALL DOORS TO ROOMS WHERE A SUPPLY DIFFUSER EXISTS BUT NO RETURN GRILLE IS PRESENT BY A MINIMUM OF 1". THIS WILL ALLOW FOR FREE MIGRATION OF RETURN AIR.
- 28. COORDINATE OPENINGS FOR GRILLES, REGISTERS, DIFFUSERS, AND DUCTWORK WITH FRAMING CONTRACTOR PRIOR TO ROUGH-IN.
- 29.F&I RADIUS ELBOWS, TURNING VANES, AND SPLITTER DAMPERS IN BRANCHES AND EXTRACTORS WHERE APPLICABLE. TURNING VANES SHALL BE INSTALLED IN ALL MITERED ELBOWS.
- 30. INSULATE FIRST TEN FEET (10') OF DUCTWORK WITH 1" THICK INTERNAL ACOUSTICAL INSULATION. INSULATE ALL SUPPLY AND RETURN AIR DUCTWORK, ALL EXTERIOR DUCTWORK AND OTHER DUCTWORK NOT WITHIN THE ENVELOPE OF THE AIR CONDITIONED SPACE.
- 31. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS AND IN CONFORMANCE WITH REQUIREMENTS OF LOCAL BUILDING AND MECHANICAL CODES. WHERE MORE THAN ONE REGULATION OR CODE APPLIES, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
- 32. FLEXIBLE DUCTWORK SHALL COMPLY WITH THE CLASS 1 REQUIREMENTS OF THE NFPA BULLETIN NO. 90A AND SHALL BE INSULATED WITH 1" FIBERGLASS, SUPPORTED BY HELICALLY WOUND STEEL WIRE WITH REINFORCED METALIZED OUTER JACKET RATED FOR USE IN PLENUMS. ATTACHMENT SHALL BE WITH WORM DRIVE CLAMPS. LENGTH SHALL NOT EXCEED 8'-0" F&I RIGID ROUND DUCTWORK FOR RUNS EXCEEDING 8'-0" IN TOTAL LENGTH. NOTE: FLEXIBLE DUCTWORK NOT ALLOWED AT EXPOSED LOCATIONS.
- 33. TAPE ALL DUCT JOINTS WITH CANVAS AND ARABOL ADHESIVE.
- 34. DUCTWORK CONSTRUCTION AND INSTALLATION INCLUDING SHEET METAL GAUGES, REINFORCEMENT, JOINT SEALING, AIR LEAKAGE AND DETAILS NOT SPECIFICALLY SHOWN ON DRAWINGS SHALL BE IN ACCORDANCE WITH THE CURRENT MECHANICAL CODE FOR LOW VELOCITY DUCT CONSTRUCTION STANDARDS.
- 35. ALL DUCT DIMENSIONS SHOWN ARE CLEAR DIMENSIONS INSIDE DUCT LINER. 36. TAKE-OFF FITTINGS SHALL BE BELL MOUTH SPIN-IN TYPE WITH QUADRANT DAMPER. F&I VOLUME DAMPER AT EACH AND EVERY SUPPLY AIR BRANCH DUCT TAKE-OFF.
- 37. IF ABOVE CEILING DUCTWORK IS FABRICATED OF SHEET METAL, HANGERS SHALL BE INSTALLED AS REQUIRED BY THE CURRENT MECHANICAL CODE.
- 38. MECHANICAL CONTRACTOR TO VERIFY THAT ALL DUCTWORK WILL FIT WHERE INDICATED WITHOUT INTERFERENCES. 39. DUCTS SHALL CONFORM TO DIMENSIONS ON THE DRAWINGS UNLESS LOCATION OF STRUCTURAL MEMBERS
- PROHIBIT. IN CASE OF A CHANGE IN DIMENSIONS, CROSS SECTIONAL AREAS SHALL BE MAINTAINED, AND A MAXIMUM OF 1:4 RATIO FOR RECTANGULAR DUCTS SHALL ALSO BE MAINTAINED. DUCT SIZES SHOWN ARE "CLEAR INSIDE" DIMENSIONS. NOTE: CONTRACTOR OPTION TO USE ROUND DUCT WITH THE SAME CUBIC INCH VOLUME.
- 40. EXHAUST DUCTS SHALL BE 26 GAUGE GALVANIZED STEEL. SEE MECHANICAL EQUIPMENT SCHEDULE OR FLOOR PLAN FOR SIZES AND TERMINATION POINT.
- 41. ALL "FACTORY MADE" DUCTS MUST BE CLASS "O" OR CLASS "1".
- 42. AIR CONDITIONING UNITS SERVING EVAPORATIVE COOLERS/MAKE-UP AIR UNITS SHALL BE FABRICATED FROM ALUMINUM SHEETS AND HAVE NO DUCT LINER.
- 43. ALL PENETRATIONS THROUGH DRAFT-STOPS TO BE SEALED.
- 44. FURNISH ALL LABOR, MATERIALS, TOOLS EQUIPMENT, TRANSPORTATION COSTS, RIGGING, FEES, PERMITS, CERTIFICATES OF INSPECTION, ETC., NECESSARY OR REASONABLE, AS REQUIRED FOR THE COMPLETE INSTALLATION OF ALL AIR CONDITIONING WORK. THE WORK SHALL BE IN STRICT ACCORDANCE WITH ASHRAE GUIDE, AND ALL LOCAL AND STATE CODES, ORDINANCES AND REGULATIONS.
- 45. UPON COMPLETION AND TESTING OF AIR CONDITIONING EQUIPMENT, THE CONTRACTOR SHALL REPLACE ALL CONSTRUCTION AIR FILTERS WITH NEW FILTERS OF THE SIZED SPECIFIED BY THE MANUFACTURER.
- 46. THE MECHANICAL CONTRACTOR SHALL ADEQUATELY SUPPORT, ERECT AND BALANCE ALL MATERIALS AND EQUIPMENT IN CONFORMANCE WITH LOCAL CODES AND HIGH STANDARDS OF CONSTRUCTION PRINCIPLES AND PRACTICES.
- 47. THE CONTRACTOR SHALL DO ALL THE NECESSARY CUTTING OF WALLS AND CEILING. NO STRUCTURAL MEMBER SHALL BE CUT WITHOUT PERMISSION FROM THE ARCHITECT AND THE ENGINEER. PATCH AROUND ALL OPENINGS TO MATCH EXISTING CONSTRUCTION. THE GENERAL CONTRACTOR SHALL BRING ALL SURFACES (FLOOR, WALLS AND CEILINGS) BACK TO ORIGINAL CONDITION AFTER MODIFICATIONS HAVE BEEN MADE.
- 48. INSTALL A COMPLETE AND WORKING MECHANICAL SYSTEM IN STRICT ACCORDANCE WITH THE CURRENT MECHANICAL CODE AND SMACNA STANDARDS.
- 49. COORDINATE EXACT LOCATION OF MECHANICAL EQUIPMENT, AIR DEVICES, PIPING, DUCTWORK, ETC., WITH PLUMBING, ELECTRICAL, STRUCTURAL, ARCHITECTURAL AND GENERAL CONTRACTOR'S DRAWINGS.
- 50. WORKMANSHIP: ALL EQUIPMENT APPURTENANCES, DEVICES AND PIPING SHALL BE INSTALLED IN CONFORMANCE WITH THE PROVISIONS AND INTENT OF THE CURRENT MECHANICAL CODE.
- 51. CONTRACTOR SHALL CHECK FOR PROPER OPERATION AND INSTALLATION, AND SHALL THOROUGHLY EXAMINE, CLEAN AND INSPECT ALL EXISTING EQUIPMENT PRIOR TO COMMENCING WORK. NOTIFY BUILDING OWNER OF ANY DYSFUNCTIONAL EQUIPMENT IMMEDIATELY.
- 52. CONTRACTOR SHALL INSURE THAT ALL EXISTING MECHANICAL EQUIPMENT IS IN SATISFACTORY WORKING CONDITION SO HE MAY MAKE PROVISIONS IN HIS BID TO ACCOMMODATE ANY REPAIRS AND/OR REPLACEMENTS

REQUIRED.

- 53. CONTRACTOR MAY, AT HIS DISCRETION, REUSE ANY/ALL EXISTING EQUIPMENT NOT SPECIFICALLY NOTED TO BE REMOVED OR ABANDONED AS LONG AS SUCH EQUIPMENT SATISFACTORILY MEETS THE DESIGN REQUIREMENTS SET FORTH IN THESE DOCUMENTS.
- 54. SIZES SHOWN ON AIR DEVICES ARE MIN. SIZE REQUIRED. CONTRACTOR SHALL VERIFY ALL AIR DEVICE SIZES AND REPLACE WITH NEW SIZE AS NECESSARY. BALANCE ALL AIR DEVICES TO CFM NOTED OR AS REQUIRED TO FURNISH EVEN TEMPERATURES.
- 55. VERIFY EXACT SIZE, LOCATION, ROUTING, ETC., OF ALL EXISTING MECHANICAL EQUIPMENT, DUCTWORK, AIR DEVICES, THERMOSTATS, SENSORS, PIPING, ETC., WHICH ARE TO BE REMOVED, REPLACED, ABANDONED, REWORKED, ETC., AS REQUIRED AND AS SHOWN ON DRAWINGS.
- 56. ALL SALVAGEABLE ITEMS SHALL BE RETURNED TO THE OWNER. MECHANICAL CONTRACTOR SHALL RETURN ALL HVAC EQUIPMENT NOTED TO BE REMOVED UNDER THIS CONTRACT TO BUILDING OWNER.
- 57. PROJECT INVOLVES WORK IN AN EXISTING FACILITY. DRAWING IS DIAGRAMMATICAL AND IS NOT INTENDED TO SHOW EVERY OFFSET AND FITTING. CONTRACTOR SHOULD BE AWARE THAT EXISTING CONDITIONS MAY CONFLICT WITH PLANS. DURING DEMOLITION/CONSTRUCTION WORK, CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND BE PREPARED TO OFFSET OR REROUTE DUCTS WHERE NECESSARY.
- 58. ALL PATCHING AND/OR REPAIRING OF THE EXISTING WALLS, FLOORS, CEILINGS, ETC. DAMAGED DUE TO REMOVAL OF EXISTING EQUIPMENT OR INSTALLATION OF NEW EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
- 59. MECHANICAL CONTRACTOR TO VERIFY EXACT LOCATION, SIZE, AND CONDITION OF ALL EQUIPMENT, DUCTWORK, PIPING, ETC., PRIOR TO SUBMITTING A BID FOR DOING WORK ON THIS PROJECT AND REPORT ANY DISCREPANCIES TO THE ARCHITECT
- 60. BEFORE BEGINNING ANY CUTTING OR DEMOLITION WORK, CONTRACTOR SHALL CAREFULLY SURVEY EXISTING WORK AND EXAMINE ALL DRAWINGS TO DETERMINE EXTENT OF THE WORK. CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO INSURE AGAINST DAMAGE DUE TO EXISTING WORK TO REMAIN IN PLACE, TO BE RE-USED, OR TO REMAIN PROPERTY OF THE OWNER, AND ANY DAMAGE TO SUCH WORK SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO OWNER. CONTRACTOR SHALL CAREFULLY COORDINATE WORK OF THIS SECTION WITH OTHER WORK AND CONSTRUCT AND MAINTAIN SHORING, BRACING, AND SUPPORTS AS REQUIRED.
- 61. WHERE PIPING, DUCTWORK AND/OR EQUIPMENT IS TO BE REMOVED, REMOVE ALL ASSOCIATED HANGERS, SUPPORTS, INSULATION, ETC. VALVES SHALL REMAIN WHERE APPROPRIATE AND/OR ADDED WHERE REQUIRED. 62.NEW HVAC EQUIPMENT AND AIR DEVICES ARE REQUIRED TO MATCH EXISTING. CONTRACTOR TO FIELD VERIFY
- MANUFACTURER AND MODEL NUMBER OF EXISTING HVAC EQUIPMENT AND EXISTING AIR DEVICES AND USE SAME TYPE FOR NEW AND RENOVATED CONSTRUCTION.
- 63. CONTRACTOR MAY BE REQUIRED TO REPLACE EXISTING AIR DEVICE WITH NEW AIR DEVICE AS MAY BE REQUIRED BY DIFFERENT CEILING, DIFFERENT CFM REQUIREMENTS, DAMAGED AIR DEVICE, ETC.
- 64. CONTRACTOR SHALL VERIFY IN FIELD THAT ALL EQUIPMENT, DUCTWORK, AIR DEVICES, ETC. FOR EACH SYSTEM SERVE THE SAME ZONE AND THAT ANY ONE SYSTEM DOES NOT SERVE MORE THAN ONE TENANT. WHERE A CONFLICT OCCURS, THE ARCHITECT SHALL BE PROMPTLY NOTIFIED AND HIS/HER DECISION SHALL BE FINAL. 65. CONTRACTOR IS TO MAKE ARRANGEMENTS WITH ANY EXISTING TENANTS PRIOR TO CONSTRUCTION FOR
- ALLOWABLE CONSTRUCTION TIMES WITHIN THEIR SPACE. 66.NEW EQUIPMENT AND AIR DEVICES ARE REQUIRED TO MATCH EXISTING. CONTRACTOR TO FIELD VERIFY
- MANUFACTURER AND MODEL NUMBER OF EXISTING EQUIPMENT AIR DEVICES AND USE SAME TYPE FOR NEW AND RENOVATED CONSTRUCTION.
- 67. MANUFACTURERS AND MODEL NUMBERS LISTED ARE INTENDED TO ESTABLISH A MINIMUM QUALITY AND PERFORMANCE LEVEL. SUBSTITUTIONS WILL BE EVALUATED UPON REQUEST.
- 68. ALL ROOF MOUNTED EQUIPMENT WITHIN 10 FT OF THE ROOF LINE SHALL BE FULLY SCREENED BY PARAPET WALLS (OR APPROVED SCREENING) EQUAL TO OR GREATER THAN THE HIGHEST POINT ON THE MECHANICAL EQUIPMENT. 69. ALL ROOF MOUNTED EQUIPMENT SHALL BE PERMANENTLY MARKED IN AN APPROVED MANNER (SUNLIGHT
- RESISTANT) THAT UNIQUELY IDENTIFIES THE APPLIANCE AND THE AREA IT SERVES. AS REQUIRED BY THE CURRENT MECHANICAL CODE. 70. HVAC SYSTEM SHOWN IS BASED ON PREVIOUS T.I. DRAWINGS AND NOT ACTUAL FIELD MEASUREMENTS OR
- AS-BUILT DRAWINGS.
- 71. REMOVE ALL EXISTING HVAC DUCTWORK AND DIFFUSERS AND REPLACE WITH NEW AS SHOWN AND AS REQUIRED.



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	PLI	UMBING	LEGEND
SYMBOL			

SYMBOL EXISTING NEW	ABBREVIATION	DESCRIPTION
┝───┤ ┝── →	ACD	AIR CONDITIONING CONDENSATE DRAIN
	CW	COLD WATER
	DHW	DOMESTIC HOT WATER (110 ⁰ F)
	DHW (140)	DOMESTIC HOT WATER (140 ⁰ F)
← →	DHWR	DOMESTIC HOT WATER RETURN
· · · · · · · · · · · · · · · · · · ·	G	NATURAL OR LIQUIFIED PETROLEUM GAS
·····	S	SANITARY
⊱⊰⊢	S	SANITARY BELOW FLOOR/GRADE
└── ऽv ── ४ ── ₩ ── ₩ ── ∀	ST	STORM DRAIN
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	V	VENT LINE

ABBREVIATION

POC

UP / DOWN

FS

FD

HB / WHT

SOV / BV /GV

SOV

WM

VTR

WCO

POP

			GAS (	MBH)	FLOW	RATE		WATE	ER TEM	P ( ^o F)		CON	INECTIO	ON SIZE	S (IN)				ELECT	FRICAL			OPER.	PER.	
MARK	MAKE	MODEL NO.	INPUT	OUTPUT	MIN (GPM)	MAX (GPM)		EWT	LWT	STOR	CW	HW	GAS	COND. DRAIN	FLUE	COM B AIR		NORMA L	STANDBY	FREEZE PROT.	MAX CURRENT	FUSE	WEIGHT (LBS)	REMARKS	
IWH-1	RINNAI	RUR199I (REU-NP3237FF-US)	199	195	0.26	9.8	98%	40	140		3/4	3/4	3/4	3/4	4	4	120/1/60	205 W	3 W	150 W	8 AMPS	10 AMPS	73	NOTES 1, 2, 3 & 4	
												-													
NOTES: 1	F&I WITH FO UNIT ACTIVA	RCED AIR COMBUSTION UNIT, 12 \ TION FLOW RATE 0.4 GPM. HEAT N AN ENERGY FACTOR FOR NATU	ER TO B	E CONF	IGURED	FOR C	ROS	SOVEI	R REC	RCU	LATIC	N OP	PERAT		1-2US	S CON	TROLLER	, 3 WAT⊺	TANTI-FR	OST PR	OTECTIO	N, IPEX CO	ONCEN ⁻	TRIC 4" VENT KIT.	

## ABBREVIATIONS ABBREV. DESCRIPTION

	DESCRIPTION
A/C A/G ACD AFF B/F B/G BP COTG CW DHW DHWR DU F&I FCO FF GC GPM MPG PRV RD RWL SD UON VTR WCO	ABOVE CEILING ABOVE GRADE CONDENSATE DRAIN ABOVE FINISHED FLOOR BELOW FLOOR BELOW FLOOR BELOW GRADE BACKFLOW PREVENTER CLEANOUT TO GRADE DOMESTIC COLD WATER DOMESTIC HOT WATER DOMESTIC HOT WATER RETURN DRAINAGE FIXTURE UNITS FURNISH AND INSTALL FLOOR CLEANOUT FINISHED FLOOR GAS COCK GALLONS PER MINUTE MEDIUM PRESSURE GAS PIPING PRESSURE RELIEF VALVE ROOF DRAIN RAIN WATER LEADER STORM DRAIN UNLESS OTHERWISE NOTED VENT THRU ROOF WALL CLEANOUT
UON VTR	UNLESS OTHERWISE NOTED VENT THRU ROOF
	A/G ACD AFF B/G BP COTG CW DHW DHWR DU F&I FCO FF GC GPM MPG PRV RD RV RD RWL SD UON VTR WCO

## GENERAL NOTES:

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-WCO

- ALL PLUMBING FIXTURES SHALL BE LABELED AS MEETING EPA WATER SENSE (WWW.EPA.GOV/WATERSENSE).
- 2. LOCATION OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.
- 3. BEFORE SUBMITTING BID, THE PLUMBING CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS AND INCLUDE IN HIS BID AN AMOUNT TO FURNISH AND INSTALL ANY FIXTURES WHICH ARE SHOWN IN ADDITION TO FIXTURES SHOWN ON THE PLUMBING DRAWINGS.

DESCRIPTION

POINT OF CONNECT TO EXISTING

FIXTURE TRAP W/ VENT CONN.

SHUT-OFF, BALL OR GATE VALVE

SHUT-OFF VALVE IN VALVE BOX

HOSE BIBB / WALL HYDRANT

WATER METER IN BOX

VENT THRU ROOF

CO / FCO / GCO | 2-WAY CLEANOUT / FLOOR / GRADE

WALL CLEANOUT

PUMP OUT PORT

PIPE TRANSITION

FLOW DIRECTION

CO / FCO / GCO | CLEANOUT / FLOOR / GRADE

PIPE UP / DOWN

FLOOR SINK

FLOOR DRAIN

- 4. CONTRACTOR SHALL VERIFY AND COORDINATE LOCATION OF ALL PLUMBING LINES WITH DUCTWORK AND ELECTRICAL SERVICES. 5. THE INSTALLATION OF ALL VALVES, UNIONS, THERMOMETERS, GAUGES, OR OTHER INDICATING OR RECORDING EQUIPMENT, OR SPECIALTIES REQUIRING FREQUENT READING, REPAIRS, ADJUSTMENT, INSPECTION, REMOVAL OR REPLACEMENT SHALL BE CONVENIENTLY AND ACCESSIBLY LOCATED WITH REFERENCE TO THE FINISHED BUILDING.
- 6. WHERE POSSIBLE, COMBINE PLUMBING VENTS TOGETHER SO AS TO MAKE THE MINIMUM NUMBER OF ROOF PENETRATIONS.
- 7. WATER CLOSETS IN PUBLIC TOILET ROOMS SHALL CENTER ON THE FINAL LAYOUT OF TOILET PARTITIONS AND BE INSTALLED AS INDICATED IN THE ARCHITECTURAL DRAWINGS.
- 8. ALL FLUE VENTS AND VTRS THROUGH ROOF SHALL BE A MINIMUM OF 10' FROM ALL AIR INTAKES AND EVAP. COOLERS.
- 9. CONTRACTOR SHALL NOT CUT HOLES IN STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM ARCHITECT. 10. CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTION OF DISSIMILAR METALS.
- 11. CONTRACTOR SHALL ROUGH-IN ALL WASTE AND SUPPLIES TO SPECIAL EQUIP. ACCORDING TO MANUFACTURERS SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED.
- 12. COPPER POTABLE WATER PIPING VELOCITY: FOR PIPE SIZES <  $2\frac{1}{2}$ " PIPE VELOCITY SHALL NOT TO EXCEED 6 FPS.
- 13. CONTRACTOR SHALL VERIFY INVERT ELEVATION OF SEWERS TO WHICH NEW WASTE LINES ARE TO BE CONNECTED PRIOR TO MAKING UP OR INSTALLING ANY OF THE NEW SANITARY SYSTEM.
- 14. FLASHED AND COUNTERFLASH ALL VTRS, PIPES AND FLUES THRU ROOF. MAKE PENETRATIONS WATER TIGHT.

## 15. WALL CLEANOUTS MAY BE SUBSTITUTED FOR FLOOR CLEANOUTS AT CONTRACTORS DISCRETION.

## FIELD VERIFICATION NOTES:

- 1. THE PLUMBING CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO FIELD VERIFY ALL EXISTING CONDITIONS WHICH MAY AFFECT HIS BID. THE FOLLOWING ITEMS SHALL BE VERIFIED.
- 1.A. PLACEMENT SIZE CAPACITY MANUFACTURER AND CONDITION OF ALL EXISTING PLUMBING EQUIPMENT WITHIN SCOPE OF WORK, WHETHER SPECIFICALLY SHOWN OR NOT.
- 1.B. SIZE AND LOCATION OF ALL EXISTING WASTE, GREASE WASTE, VENT, GAS AND WATER PIPING.
- 2. ALL REFERENCES IN THESE DRAWINGS TO EXISTING EQUIPMENT, FIXTURES AND PIPING TO BE VERIFIED BY THE CONTRACTOR PRIOR TO SUBMITTING THE BID. THE BID SHALL INCLUDE ANY AND ALL AMOUNTS REQUIRED TO ACCOMMODATE EXISTING CONDITIONS.
- 3. NO ALLOWANCES WILL BE MADE AFTER THE PROJECT HAS BEEN AWARDED FOR FAILURE TO VERIFY EXISTING CONDITIONS.
- 4. ANY DISCREPANCIES WHICH MAY AFFECT THE CONTRACTOR BID SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND ARCHITECT FOR DIRECTION.
- 5. PLUMBING ROUTINGS BASED ON OWNER'S SCHEMATICS OF LOCATION OF EXISTING FIXTURES AND SHELL DRAWINGS. CONTRACTOR RESPONSIBLE FOR VERIFICATION OF ACTUAL LOCATION OF SUPPLY LINES AND MAKING APPROPRIATE ADJUSTMENTS TO ACTUAL CONDITIONS IN THE FIELD.
- 6. CONTRACTOR SHALL VERIFY INVERT ELEVATION OF SEWERS TO WHICH NEW SANITARY LINES ARE TO BE CONNECTED BEFORE SUBMITTING THE BID.
- 7. PRIOR TO CONSTRUCTION VERIFY THE LOCATION OF THE HVAC/WALK-IN CONDENSATE FLOOR SINK. IF SLOPE AND DISTANCE OR IF IT IS INFEASIBLE TO DISPOSE OF WALK-IN COOLER CONDENSATE. USE A CONDENSATE PUMP.

## NATURAL GAS DOMESTIC HOT WATER HEATER SCHEDULE

4 USE UBBINK POLUPROPYLENE CONCENTRIC VENT, TWIN PIPE PVC / CPVC PIPING SYSTEM OR CENTROTHERM POLUPROPYLENE TWIN PIPE ADAPTOR KIT.

		PLUMB	ING FIXTURES S	CHEDULE				
FIXTURE	DESIGNATION	MFR. AND MODEL NUMBER	FITTING AND CAPACITY	ACCESSORIES/REMARKS	COLD WATER	HOT WATER	WASTE	VENT SIZE
KITCHEN SINK	KS-1	AERO 3 COMPARTMENT SINK, 87.25"W X 27"D × 39.5"H, INCLUDING 7" BACKSPLASH, 14 GAUGE SS SINK MODEL# 2F3-2116-18LR. BOWL SIZE 16"W X 21"D X 14"D. UNIT DRILLED FOR FAUCET 8" O.C. AND 18" DRAIN BOARDS ON BOTH ENDS.		F&I W/ DEARBORN 3785A STRAINER, WASTE LEVER; BRASS CRAFT SC4R19–Z LOOSE KEY ANGLE STOPS; E29 AERATOR; RISER TAILPIECE (AND MCGUIRE 8089 P–TRAP). SEE NOTE 2.	3⁄4"	3∕4"	2"	1½"
MOP SINK	MS-1	MUSTEE 63P	ROUGH CHROME FINISHED FAUCET W/WALL BRACKET AND 30 INCH HOSE.	F&I W/VACUUM BREAKER, 3/4" HOSE CONNECTION ON SPOUT/OUTLET AND MOP HANGER. SEE NOTE 2	3⁄4"	3⁄4"	3"	2"
HAND SINK	HS-1,2	AERO SS HAND SINK MODEL# HSF2S W/BACKSPLASH AND SPLASH GUARDS ON BOTH SIDES	FAUCET TO BE CHROME FINISHED W/KNEE CONTROLS AND AERATOR.	CW & DHW WATER HAMMER ARRESTERS; BRASS CRAFT SC4R19–Z LOOSE KEY ANGLE STOPS AND E29 AERATOR; RISER TAILPIECE AND P-TRAP & ARM W/CLEANOUT AND ESCUTCHEON. SEE NOTES 1 & 2.	¥2"	¥2"	2"	1½"
WATER CLOSET	WC-1	ZURN Z5555-K, FLOOR MOUNTED, ADA COMPLIANT, ELONGATED BOWL SIPHON JET WATER CLOSET.	FLUSH TANK, 1.28GAL PER FLUSH	CHURCH SEAT 9500C, FRONT OPEN SEAT AND BRASS CRAFT SC4R19-Z LOOSE KEY ANGLE STOPS. SEE NOTE 2.	¥2"		3"	2"
LAVATORY	LV-1	VITROUS CHINA, ADA COMPLIANT LAVATORY WITH 4" CENTERS. ZURN MODEL # Z5340	ZURN Z81104-XL-3M FAUCET ON 4" CENTERS W/4" WRIST BLADES		¹ /2"	1/2"	1¼"	11/4"
FLOOR SINK	FS-1	ZURN FD-1749	FOR FINISHED FLOOR AREA	12" SQ TOP X 4" DEEP. SEE NOTES 6 & 7			2"	1½"
FLOOR DRAIN	FD-1	ZURN FD1-B-PB FLOOR DRAIN WITH 5" ROUND POLISHED BRASS TOP & ABS BODY.	FOR FINISHED FLOOR AREA	F&I WITH OR ASSE 1072 APPROVED TRAP SEAL AND HUB DRAIN ACCESSORY. SEE NOTES 5 & 6 (2" THROUGH 4").			2"	1½"
GREASE INTERCEPTOR	GT-1	BIG DIPPER W-350-IS	35 GPM 85.2 LBS CAPACITY	2.5 GA INTERNAL STRAINER BASKET			3"	1"
CLOTHES WASHER BOX	CWB-1	GUY GRAY #BB-200	F&I WITH CW & DHW WATER HAMMER ARRESTER	QUARTER TURN $\frac{1}{2}$ " SWEAT VALVES. STANDPIPE TO BE A MAXIMUM OF 30".	³ ⁄4"	³ ⁄4"	2"	1½"

F&I W/ $\frac{1}{3}$ " WATTS LFMMV-**-M1 TEMPERATURE MIXING VALVE SET AT 110°F OUTPUT.

SHUT-OFF VALVES ON UPSTREAM SIDE OF CW & DHW LINES ABOVE CEILING.

BRASS CRAFT SC4R19-Z LOOSE KEY ANGLE STOPS W/FLEXIBLE SUPPLIES; Z8700 P-TRAP & Z8746-PC GRID STRAINER.

Z8946-3-NT ADA TRAP AND ARM W/CLEANOUT AND ESCUTCHEON; AND STOP & SUPPLY PROTECTORS FOR OFFSET GRID STRAINER. 5" ROUND TOP, WITH CLAMPING COLLAR, ADJUSTABLE NICKEL BRONZE STRAINER ASSEMBLY, Z1012-FC DEEP-SEAL TRAP ADJUSTABLE C.I. FLOOR CLEANOUT & PLUG, AND ASSE 1072 APPROVED TRAP SEAL.

MODEL P2400X GREEN DRAIN WATERLESS TRAP SEAL.

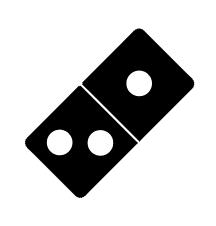
WITH ACID RESISTANT BODY; NICKEL BRONZE DOME STRAINER; CLAMPING COLLAR; AND NON-TILT LOOSE GRATE WITH 1/2" SQUARE OPENINGS. 3/4 GRATE AS REQUIRED BY SIZE AND NUMBER OF PIPES DISCHARGING TO UNIT.

WATER PR	ESS	SUR	Ε (	CAL	CUI	_ATI	ON				
ASSUMED AVAILABLE STA	TIC PR	ESSUR	E			65.0	PSI				
PRESSURE DROP THRU M	ETER					6.0	PSI				
PRESSURE DROP @ BACK						10.0					
AVAILABLE PRESS. ON H	150	49.0	PSI								
STIMATED PIPE LENGTH											
EQUIV. LENGTH – METER	165										
P.D. – METER TO BUILDII	Τ	9.9 PSI									
PRESSURE AVAILABLE AT		39.1									
PSI REQ. AT END OF THE						20.0	PSI				
PRESS. DROP @ THROUG						3.0					
PRESS. DROP DUE TO PI	PE ELE	VATION	I CHAN	IGES		4.3					
REMAINING PRESSURE						11.8					
SYSTEM LENGTH						175					
EQUIVALENT PIPE LENGTH	1					135	FT				
ALLOWABLE LOSS/100FT OF	PIPE:		NING PI . LENG		<u>( 100FT</u> PIPE	8.70	PSI				
FIXTURE U	NITS	S D	ОМ	EST	IC V	VATE	ER -				
			DIVIDU <i>i</i> URE UI		СОММО	LATIVE F	FIXTURE				
FIXTURES	AMNT.	TOT CW	CW PER FIXT	DHW PER FIXT	CW MAIN	CW	DHW				
LAVATORY (LV-1)	1	2.0	1.50	1.50	2.00	1.50	1.50				
MOP SINK (MS-1)	1	3.0	2.25	2.25	3.00	2.25	2.25				
HAND SINK (HS-1,2)	2	2.0	1.50	1.50	4.00	3.00	3.00				
WATER CLOSET (WC-1)	1	2.0	2.00	_	2.00	2.00	_				
CLOTHES WASHER BOX (CWB-1)	1	3.0	2.25	2.25	3.00	2.25	2.25				
KITCHEN (KS-1)	1	4.0	3.00	3.00	4.00	3.00	3.00				
TO	TAL				18.00	14.00	12.00				
GF	⊃M				18.8	17.0	16.0				
NOTES AND FIELD	COND	ITION	<u>S:</u>								
<ul> <li>PIPE TO BE AS IN</li> <li>2. CONTRACTOR TO F</li> <li>POINT OF CONNEC</li> <li>CW PIPE TO BE A</li> <li>BUILDING WALL.</li> <li>3. CONTRACTOR SHAL</li> <li>PIPE LENGTHS PRI</li> <li>LESS THAN OR AC</li> <li>ABOVE, CONTRACT</li> <li>PIPE SIZING EVALL</li> </ul>	<ol> <li>IOTES AND FIELD CONDITIONS:</li> <li>CONTRACTOR TO FIELD VERIFY SIZE AND LOCATION OF (E) CW PIPE TO BE AS INDICATED THESE DRAWINGS.</li> <li>CONTRACTOR TO FIELD VERIFY AVAILABLE PRESSURE AT THE POINT OF CONNECTION (POC) TO THE CW SERVICE. POC TO CW PIPE TO BE AS INDICATED IN THESE PLANS AT THE BUILDING WALL.</li> </ol>										
POTABLE	W A	4 TE	r f	PIPE	SIZ	ZING					
				PIPE	FLUSH	FLUSH					

PIPE SIZE (IN)	FLUSH TANK F.U.	FLUSH VALVE F.U.	FLOW (GPM)
1/2	1.2	-	3.3
3⁄4	4.9	Ι	9.3
1	12	I	16
11/4	29	8	23
11/2	60	16	32
2	250	180	58



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 $\infty$  $\mathbf{v}$ 501. 8 Φ ement , MO 64082 Domino's 0 **+** S Û ,≓ o Φ 90 340 Store 0  $\bigcirc$ 5 St St LLC Tenant I St., Lee's Iemeent I Cutoff 0 64133 Ð 0 × Ter **Project N** Domino's Pizza Pizza Theater Te 3544 SW Market S for DESZ Manage 3901 Blue Ridge C Kansas City, MO 6 **ISSUED FOR PERMIT:** 04.22.2021 REV: DATE: DESCRIPTION: SHEET NAME: PLUMBING LEGEND, CALCULATIONS AND SCHEDULES SHEET NUMBER:

P1.0

PRIOR TO THE COMMENCEMENT OF WORK, CONTRACTOR TO COORDINATE THE WORK REPRESENTED IN THIS SET OF DOCUMENTS WITH ALL TRADES. CONTRACTOR TO FIELD VERIFY CONDITION, LOCATION, SIZE, CAPACITY AND FLOW DIRECTION OF EXISTING SYSTEMS AND COMPONENTS BEING INCORPORATED INTO THE SYSTEMS AS INDICATED IN THESE DOCUMENTS.

ALL PIPE PENETRATIONS THROUGH BURIED STRUCTURAL ELEMENTS SHALL HAVE A PIPE SLEEVE AND SHALL BE MADE WATERTIGHT WITH A MODULAR SEAL SUCH AS LINKSEAL.

UNLESS OTHERWISE NOTED, ALL EQUIPMENT, MATERIAL AND SYSTEM COMPONENTS CONTAINED OR REFERED TO BY THESE DOCUMENTS ARE TO BE CONISDERED AS NEW TO BE FURNISHED AND INSTALLED (F&I) AS THUS.

SEE SHEETS P1.0, P5.0 AND MECHANICAL & ARCHITECTURAL DOCUMENTS FOR FURTHER REQUIREMENTS.

FOR PIPE SIZES NOT INDICATED, SEE PLUMBING FIXTURE SCHEDULE ON P1.0.

## FOR DOMESTIC WATER SYSTEMS ONLY, PEX PIPING IS AN ACCEPTABLE SUBSTITUTION FOR COPPER TUBING UNLESS OTHERWISE NOTED.

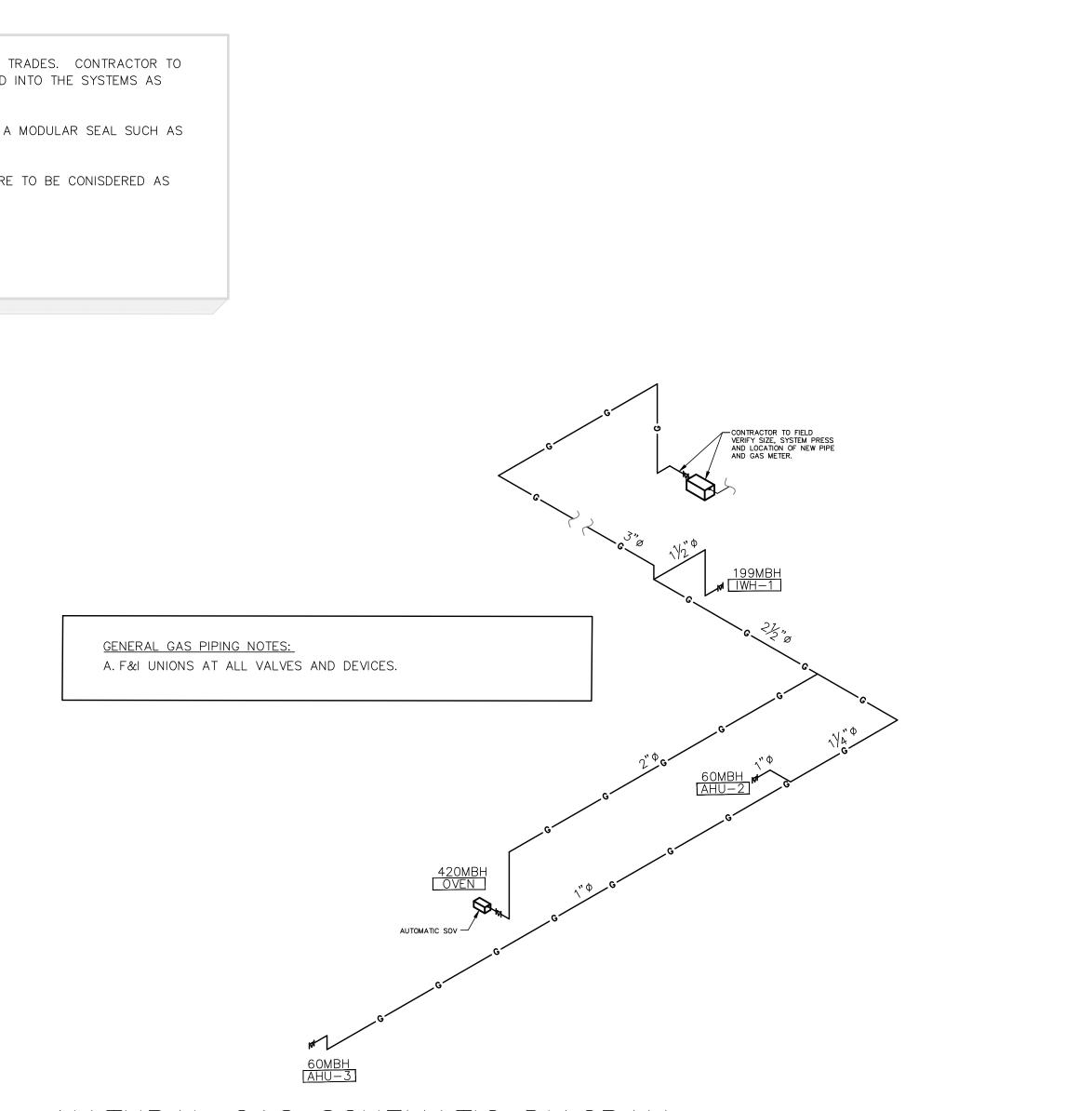
## LOW PRESSURE NATURAL GAS CALCULATION

APPLIANCES	PIPE LENGTH (FT)	DEMAND (MBH)
IWH-1		199
OVEN		420
AHU-2		60
AHU-3		60
TOTAL		739
PIPE LENGTH FROM DEMISING WALL TO METER/PRV ASSEMBLY	150	
PIPE FITTINGS EQUIV. LENGTH FROM BLDG TO METER/PRV	225	
LENGTH OF PIPE IN TENANT SPACE	58	
EQUIV. LENGTH OF PIPE IN OR ON THE BUILDING	87	
TOTAL EQUIVALENT SYSTEM PIPE LENGTH	312	

<u>NOTES:</u>

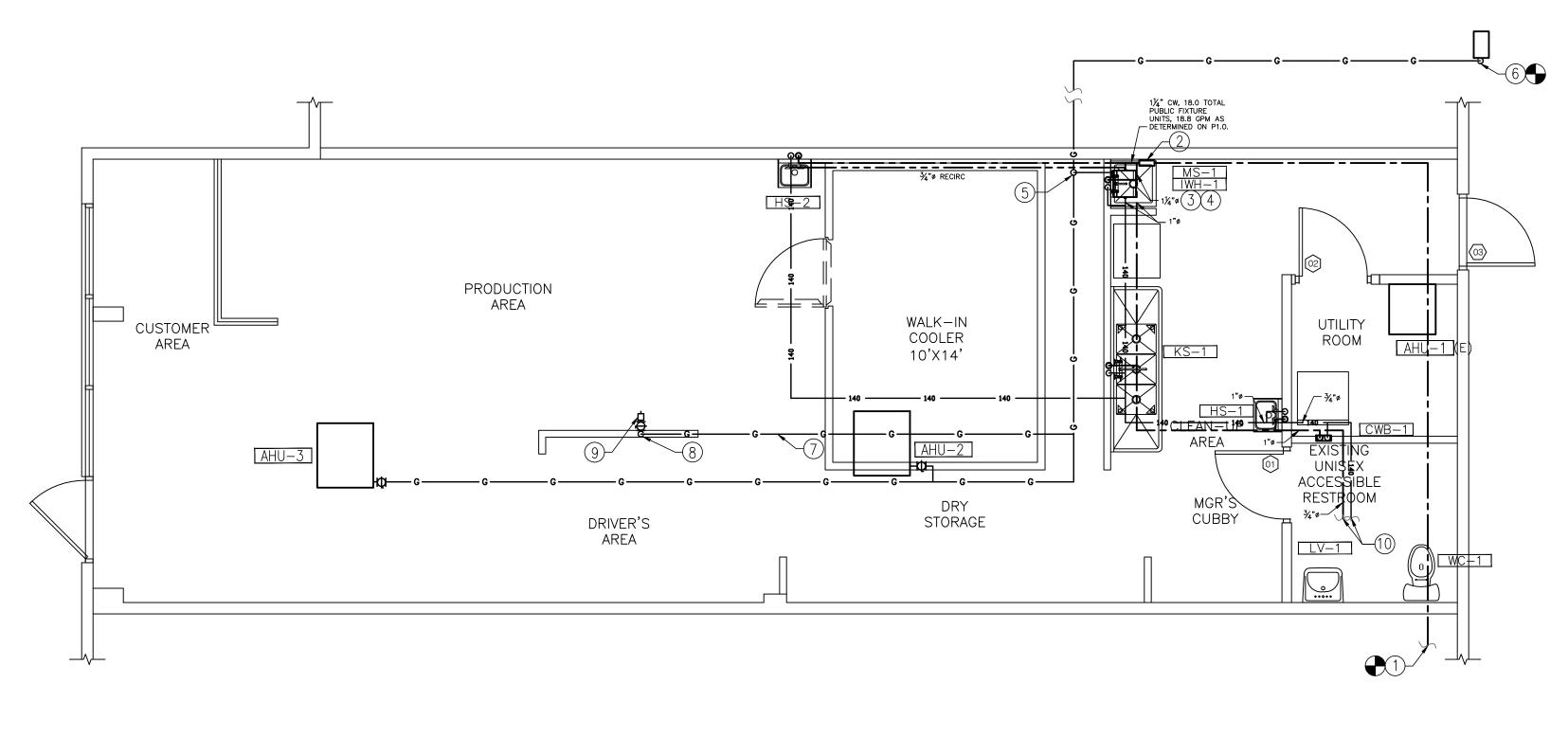
PIPE SIZING BASED ON 2018 IFGC, TABLE 402.4(1) PIPE SIZING FOR PRESSURE LESS THAN 2 PSI, PRESSURE DROP OF 0.3" W.C. AND

SPECIFIC GRAVITY OF 0.60. CONTRACTOR SHALL VERIFY ACTUAL GAS PRESSURE AVAILABLE, PIPE LENGTHS, METER/PRV ASSEMBLY SIZE AND LOCATION PRIOR TO CONSTRUCTION. IF PRESSURE IS LESS THAN LISTED ABOVE, ACTUAL PIPE LENGTH IS MORE THAN LISTED ABOVE, CONTRACTOR SHALL CONTACT THE ENGINEER FOR PIPE SIZING EVALUATION. COORDINATE WITH LOCAL UTILITY.



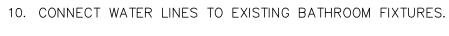
# NATURAL GAS SCHEMATIC DIAGRAM





## KEYE<u>D</u> NOTES:

- 1. ROUTE COLD WATER PIPING TO CONNECT TO NEW SERVICE WATER PIPING. FIELD VERIFY SIZE, LENGTH OF RUN FROM BUILDING WALL TO METER/PRV ASSEMBLY, CAPACITY, WATER PRESSURE AND LOCATION OF THE METER/PRV ASSEMBLY AND PIPE. ESTIMATED LENGTH OF PIPE FROM THE BUILDING WALL TO THE METER/PRV ASSEMBLY IS SHOWN IN CALCULATIONS ON SHEET P1.0. F&I NEW METER AS REQUIRED.
- 2. F&I WATTS LF009 BACKFLOW PREVENTER ABOVE MOP SINK. ROUTE RELIEF PIPE TO DISCHARGE ABOVE TO MOP SINK WITH 1" AIR GAP.
- 3. ALL DHW AND 8 FEET OF CW PIPING CONNECTED TO THE WATER HEATER SHALL BE INSULATED WITH I" THICK INSULATION. INSULATION TO HAVE AN "R" RATING OF R=4.2 FOR PIPE SIZES <  $1\frac{1}{4}$ ". PIPE SIZES >1" SHALL BE INSULATED WITH 1-1/2" THICK INSULATION HAVING AN "R" RATING NOT LESS THAN R=6.
- 4. SEE MECHANICAL SHEETS FOR VENT & COMBUSTION AIR. 5. GAS PIPE UP THRU ROOF. RUN GAS BACK TO GAS METER. SEE GAS PIPING SCHEMATIC DIAGRAM.
- 6. RUN NEW GAS LINE BACK TO NEW GAS METER/PRV ASSEMBLY (METER BANK). FIELD VERIFY SIZE, LENGTH OF RUN FROM THIS POINT TO METER/PRV ASSEMBLY; PIPE AND METER/PRV ASSEMBLY CAPACITY; GAS PRESSURE INLET AND OUTLET OF GAS METER/PRV ASSEMBLY; AND LOCATION OF THE METER AND PIPE. ESTIMATED LENGTH OF PIPE FROM THIS POINT TO METER/PRV ASSEMBLY IS SHOWN IN CALCULATIONS ON SHEET P1.0. CONNECT TO NEW AND/OR EXISTING METER/PRV ASSEMBLY.
- 7. OVEN DEDICATED GAS LINE.
- 8. GAS LINE TO DROP DOWN TO OVEN MANIFOLD.
- 9. AUTOMATIC SHUT OFF VALVE TO CUT GAS SUPPLY TO OVEN WHEN HOOD FIRE PROTECTION SYSTEM ACTIVATES.



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PRIOR TO THE COMMENCEMENT OF WORK, CONTRACTOR TO COORDINATE THE WORK REPRESENTED IN THIS SET OF DOCUMENTS WITH ALL TRADES. CONTRACTOR TO FIELD VERIFY CONDITION, LOCATION, SIZE, CAPACITY AND FLOW DIRECTION OF EXISTING SYSTEMS AND COMPONENTS BEING INCORPORATED INTO THE SYSTEMS AS INDICATED IN THESE DOCUMENTS.

ALL PIPE PENETRATIONS THROUGH BURIED STRUCTURAL ELEMENTS SHALL HAVE A PIPE SLEEVE AND SHALL BE MADE WATERTIGHT WITH A MODULAR SEAL SUCH AS LINKSEAL.

UNLESS OTHERWISE NOTED, ALL EQUIPMENT, MATERIAL AND SYSTEM COMPONENTS CONTAINED OR REFERED TO BY THESE DOCUMENTS ARE TO BE CONISDERED AS NEW TO BE FURNISHED AND INSTALLED (F&I) AS THUS.

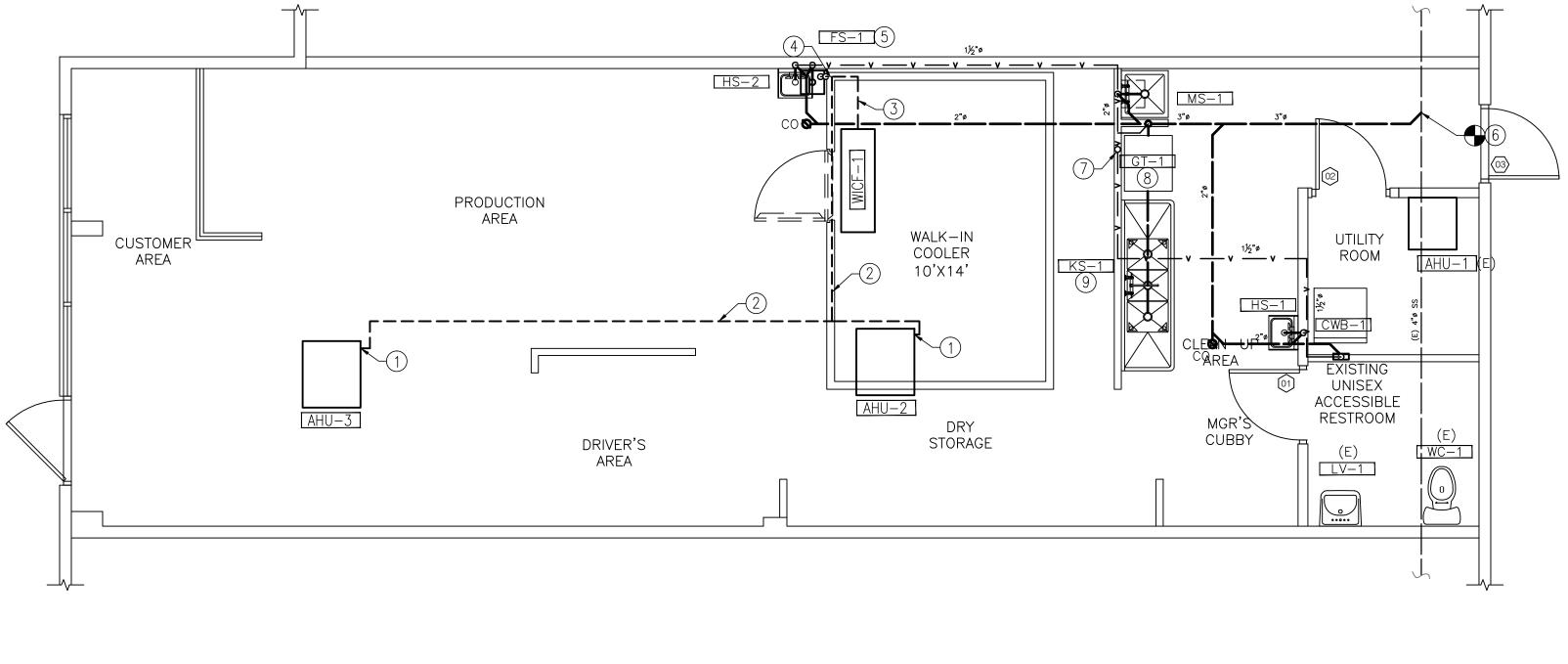
SEE SHEETS P1.0, P5.0 AND MECHANICAL & ARCHITECTURAL DOCUMENTS FOR FURTHER REQUIREMENTS.

FOR PIPE SIZES NOT INDICATED, SEE PLUMBING FIXTURE SCHEDULE ON P1.0.

GREASE TRAP SIZING							
	WIDTH	LENGTH	HEIGHT	VOLUME IN ³			
	16	21	14	4704			
FIXTURE CAPACITY	EFFECTIVE (VOL*0.75/2	E VOLUME 31) GALLONS	15.27				
	3-COMPARTM	IENT VOLUME	45.82				
	2 MINUTE FLOW PERIOD 22.91						
TOTAL FLOW	/ THRU GRE	ease trap	22	.91			

## SANITARY SEWER FIXTURE UNITS

FIXTURES	AMNT.	DWFU EA.	SUB- TOTAL (DWFU)
LAVATORY (LV-1)	1	1	1
MOP SINK (MS-1)	1	2	2
HAND SINK (HS-1,2)	2	2	4
WATER CLOSET (WC-1)	1	4	4
FLOOR SINK (FS-1)	1	2	2
CLOTHES WASHER BOX (CWB-1)	1	2	2
KITCHEN (KS-1)	1	2	2
TOTALS	8		17



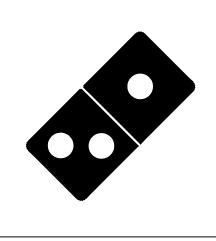
# SANITARY SEWER PLUMBING FLOOR PLAN Scale: 1/4" = 1'-0"

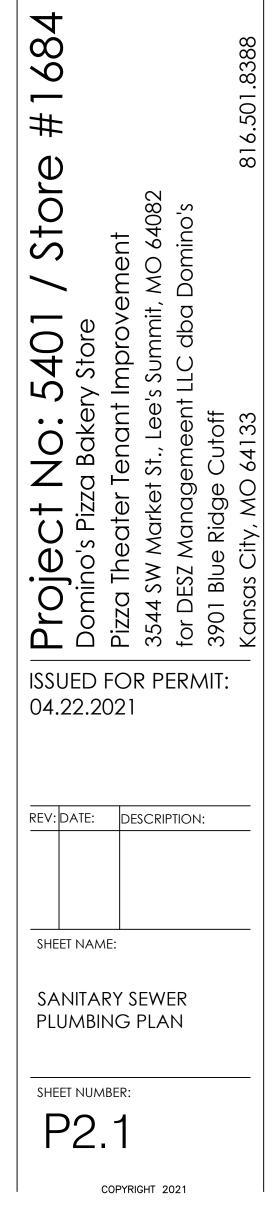
## KEYED NOTES:

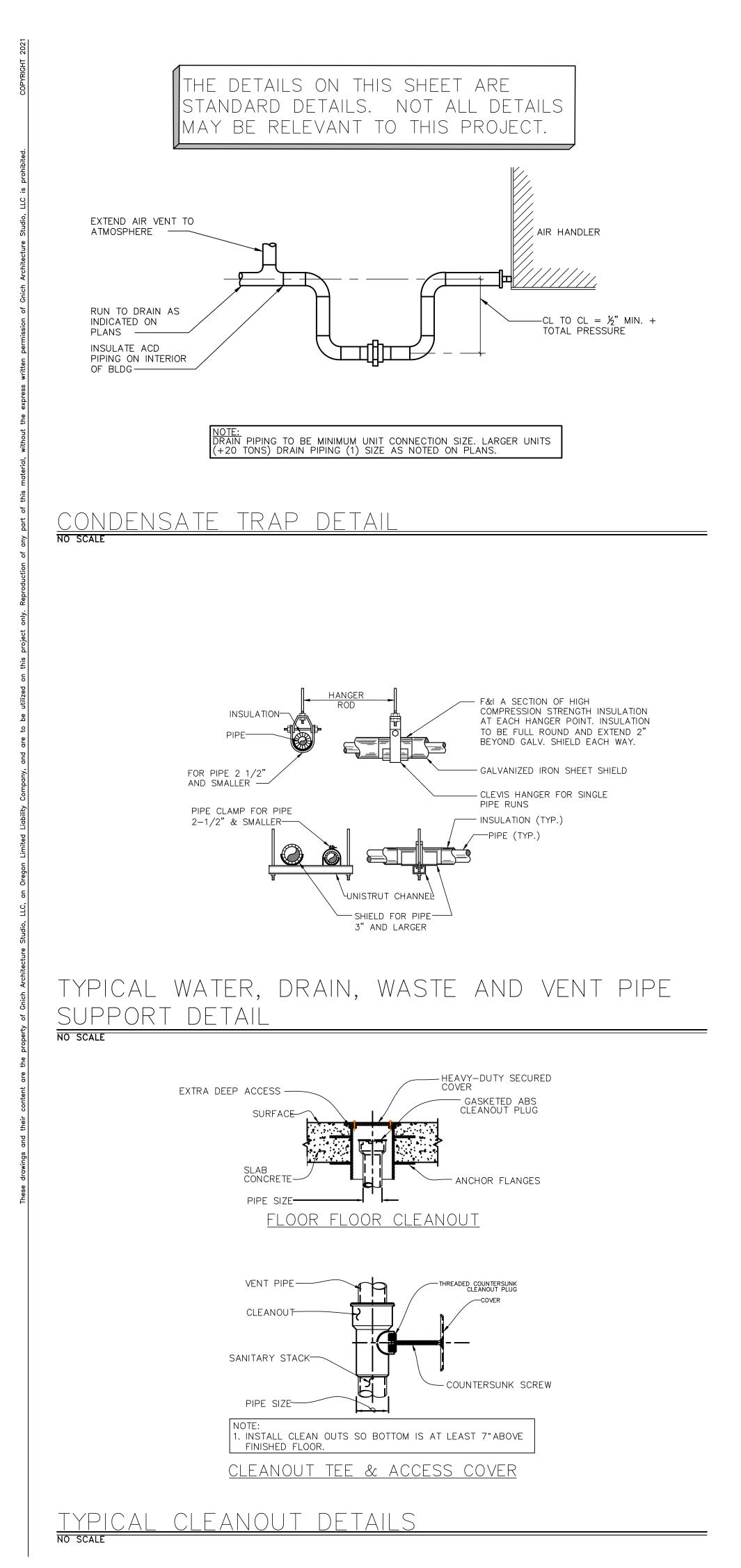
- 1. ACD PIPE DOWN FROM EQUIPMENT.
- 2.  $\frac{3}{4}$ " acd pipe typical U.O.N.
- 3. 1" ACD PIPE.
- 4. 1¼"" ACD PIPE.
- 5. TERMINATE ACD PIPE OVER FS-1 WITH A MINIMUM AIR GAP OF 2X THE DIAMETER DRAINING PIPE.
- 6. ROUTE SANITARY PIPING TO CONNECT TO EXISTING SANITARY MAIN. VERIFY EXACT LOCATION.
- 7.  $2\frac{1}{2}$ " vent up thru roof to 4" vtr. maintain MINIMUM 10'-0" FROM OUTSIDE AIR INTAKES.
- 8. GREASE INTERCEPTOR. SEE SHEETS P1 & P4
- 9. KITCHEN 3-COMP SINK GREASE LINE TO DISCHARGE DIRECTLY TO THE GREASE TRAP.

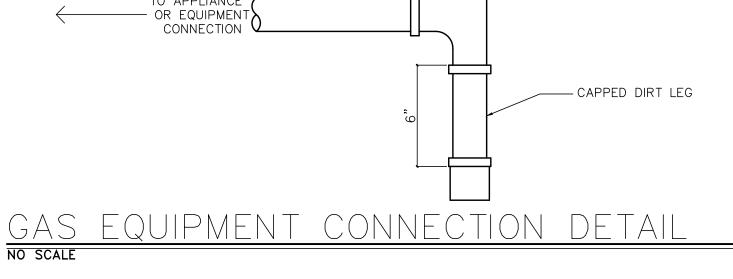


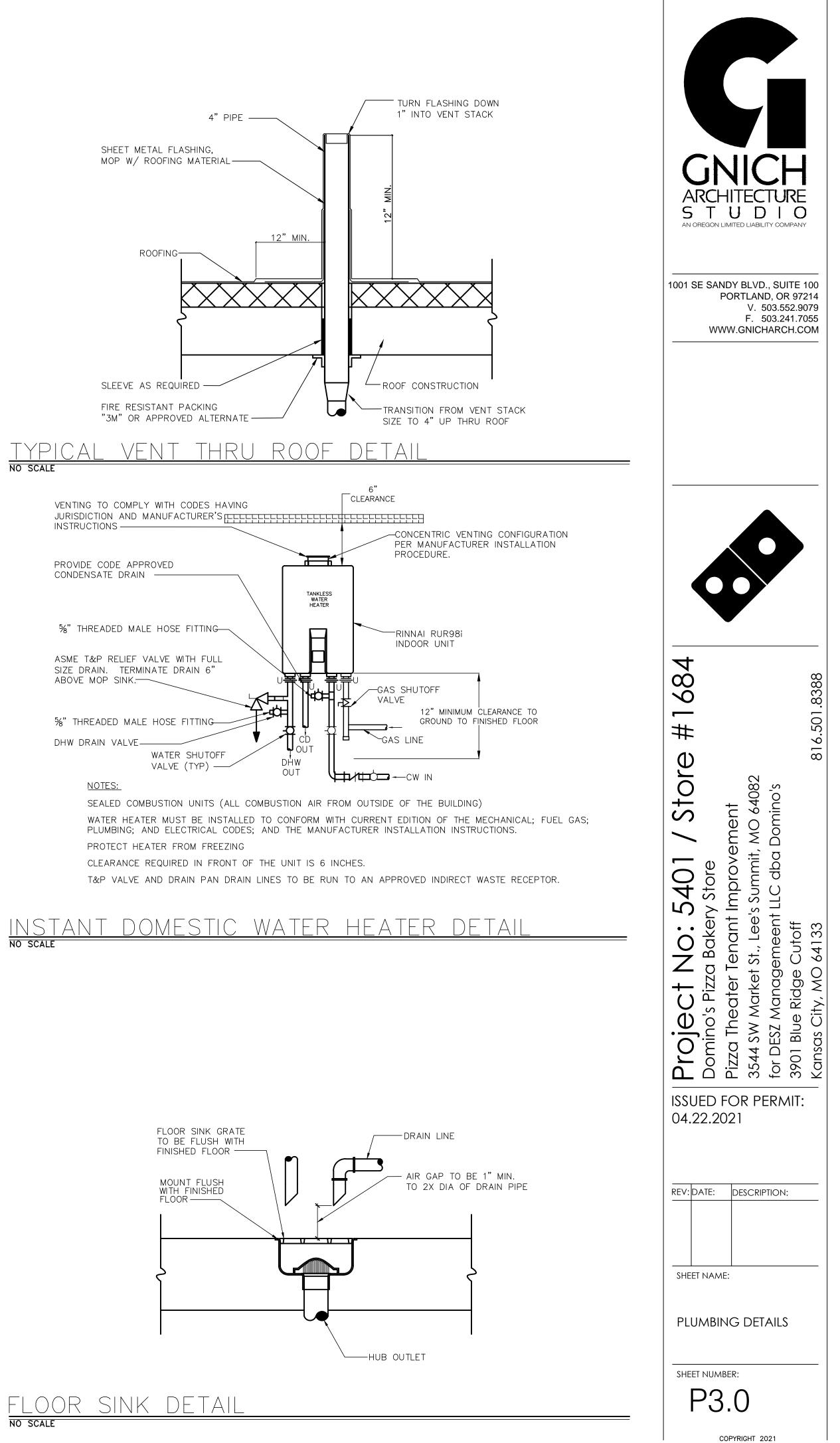
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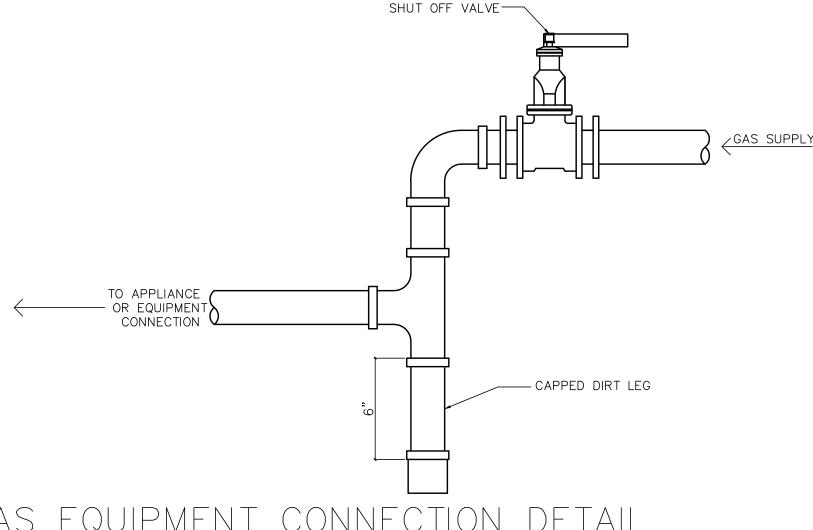




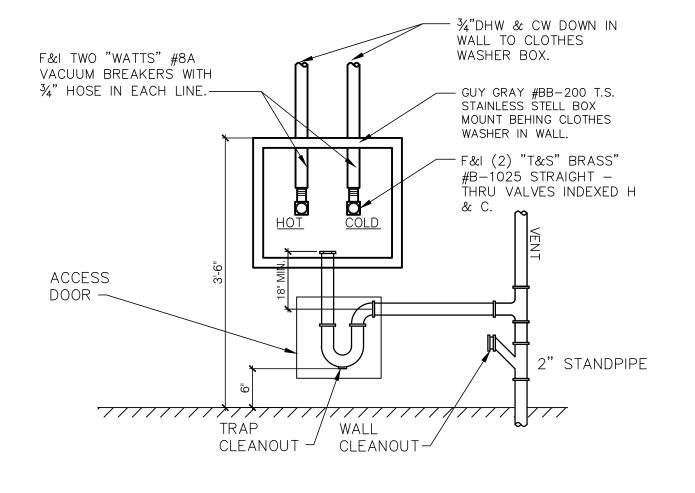




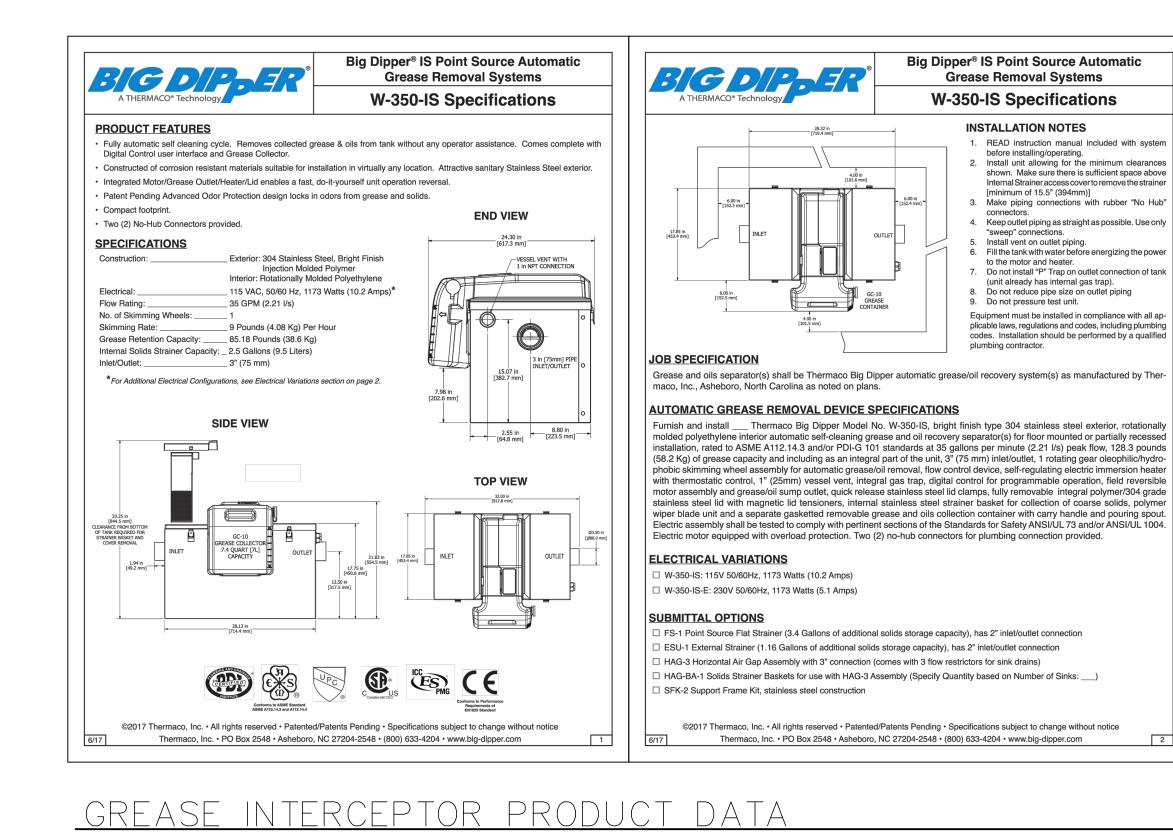




## WASHER BOX CONNECTION DETAIL HFS NO SCALE



# 



NO SCALE

- A. <u>GENERAL NOTES</u>
- 1. DRAWINGS AND GENERAL PROVISIONS OF THE CONTRACT, INCLUDING GENERAL AND SUPPLEMENTARY CONDITIONS AND ALL OTHER SPECIFICATION SECTIONS, APPLY TO ALL PORTIONS OF THE PLUMBING RELATED WORK.
- 2. THE PLUMBING CONTRACTOR (PC) IS REQUIRED TO READ THE SPECIFICATIONS AND REVIEW ALL DOCUMENTATION AND DRAWINGS FOR ALL DIVISIONS OF WORK PRIOR TO BEGINNING WORK. THE PC IS RESPONSIBLE FOR THE COORDINATION OF THEIR WORK AND THE WORK OF THEIR SUBCONTRACTORS WITH ALL DIVISIONS OF WORK. IT IS THIS CONTRACTOR'S RESPONSIBILITY OF THE PC TO FURNISH COMPLETE SETS OF DOCUMENTS THEIR SUBCONTRACTORS.
- 3. THE PC IS RESPONSIBLE FOR SCHEDULING THE COMPLETION AND INSPECTION OF THEIR WORK AND THE WORK OF THEIR SUBCONTRACTORS TO COMPLY WITH THE CONSTRUCTION SCHEDULE.
- 4. THE PC SHALL VISIT THE SITE PRIOR TO SUBMITTAL OF BID TO DETERMINE CONDITIONS AFFECTING THE WORK. ANY ITEMS WHICH ARE NOT COVERED IN THE BID DOCUMENTS OR ANY PROPOSED SUBSTITUTIONS SHALL BE LISTED SEPARATELY AND QUALIFIED IN THE PC'S BID. SUBMITTAL OF A BID SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS AND THE PERFORMANCE OF ANY MODIFICATIONS WHICH ARE REQUIRED TO MEET THE INTENT OF THE DOCUMENTS. MODIFICATIONS REQUIRED SHALL BE INCLUDED IN THE BID. FAILURE TO VISIT THE SITE DOES NOT RELIEVE THE PC OF THEIR RESPONSIBILITY IN PERFORMANCE OF WORK.
- B. <u>GENERAL REQUIREMENTS:</u>
- 1. THE PC SHALL F&I ALL LABOR, MATERIALS, EQUIPMENT, SERVICES, TOOLS, TRANSPORTATION, AND FACILITIES NECESSARY TO F&I A COMPLETE PLUMBING SYSTEM AS INDICATED IN THESE DOCUMENTS AND AS REQUIRED BY JOB CONDITIONS. ALL WORK NECESSARY AND NOT SPECIFICALLY NOTED TO BE F&I BY OTHERS SHALL BE FURNISHED AND INSTALLED / OR COORDINATED BY THE PC.
- 2. ALL WORK SHALL BE PERFORMED IN A NEAT, PROFESSIONAL MANNER USING GOOD CONSTRUCTION PRACTICES AND AS INDICATED BY THESE DOCUMENTS.
- 3. UNLESS OTHERWISE NOTED, MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW, TESTED, LISTED AND SIZED IN CONFORMITY WITH REQUIREMENTS OF THE CURRENT CODES AND AS ENFORCED BY THE AUTHORITIES HAVING JURISDICTION (AHJ), WHICHEVER IS MORE STRINGENT.
- 4. ALL WORK SHALL BE INSTALLED SO AS TO BE READILY ACCESSIBLE FOR OPERATING, SERVICING, MAINTAINING AND REPAIRING. THE PC IS RESPONSIBLE FOR PROVIDING SUFFICIENT SERVICE ACCESS, AS INDICATED BY EQUIPMENT MANUFACTURER'S INSTRUCTIONS, TO ALL EQUIPMENT.
- 5. FIELD MEASURE AND DETERMINE THE ACTUAL FIELD CONDITIONS. FURNISH ALL REQUIRED OFFSETS, ADDITIONAL ELBOWS, SUPPORTS, COMPONENTS, ETC. AS REQUIRED TO INSTALL COMPLETE SYSTEMS.
- C. <u>CODES</u>
- 1. ALL WORK SHALL COMPLY WITH THE CODES AND OTHER STATE, COUNTY, CITY AND LOCAL ORDINANCES, SAFETY AND HEALTH CODES AND NFPA CODES AS INDICATED HEREIN AND AS INDICATED ON SHEET G1.0 OF THESE DOCUMENTS. THE WORK PERFORMED TO CONFORM TO ALL APPLICABLE CODES, ORDINANCES, AND REGULATIONS. THE PC SHALL INCLUDE ANY CHANGES REQUIRED BY THE AHJ IN THEIR BID. IF THESE CHANGES ARE NOT INCLUDED IN THE BID, THEY MUST BE QUALIFIED AS A SEPARATE LINE ITEM IN THE BID. AFTER CONTRACT IS ISSUED, NO ADDITIONAL COST DUE TO CODE OR ORDINANCE ISSUES SHALL BE REIMBURSED TO THE PC.
- LICENSES, PERMITS AND INSPECTION FEES
- 1. THE PC SHALL OBTAIN AND PAY FOR ALL LICENSES, PERMITS, INSPECTIONS AND FEES REQUIRED OR RELATED TO THE PERFORMANCE OF THEIR WORK.
- 2. FURNISH TO THE (OWNER) ALL CERTIFICATES OF INSPECTION AND FINAL INSPECTION APPROVAL AT COMPLETION OF PROJECT.
- E. <u>GUARANTEE</u>
- 1. THE PC SHALL GUARANTEE ALL MATERIALS AND LABOR F&I UNDER THEIR CONTRACT AND SHALL MAKE GOOD, REPAIR DEFECTIVE MATERIALS, EQUIPMENT AND LABOR AT THEIR OWN EXPENSE. ANY DEFECTIVE MATERIAL EQUIPMENT AND LABOR DISCOVERED WITHIN A PERIOD OF 12 MONTHS FROM THE DATE OF WRITTEN ACCEPTANCE OF THE WORK, AND AS INDICATED BY THE EXTENDED WARRANTIES FOR THE INDIVIDUAL EQUIPMENT SHALL BE REPAIRED OR REPLACED BY THE PC
- 2. HOT WATER HEATERS SHALL BE FURNISHED WITH A 5 YEAR HEAT EXCHANGER WARRANTY.
- F. <u>PHASING REQUIREMENTS (IF APPLICABLE)</u>
- 1. THE PC SHALL INCLUDE IN THEIR BID ALL NECESSARY SERVICE REQUIRED TO KEEP THE OPERATING PORTION OF THE BUILDING'S (HVAC, PLUMBING AND SPRINKLER) SERVICES IN OPERATION. CONTRACTOR MUST SCHEDULE IN WRITING ONE WEEK PRIOR TO ANY SHUT DOWN OF THE HVAC, PLUMBING OR FIRE PROTECTION) SYSTEMS.
- 2. THE PC IS RESPONSIBLE FOR THE COORDINATION OF THE DEMOLITION OF EXISTING WORK AND THE RENOVATION WORK, COORDINATE WORK AFFECTING ANY EXISTING EQUIPMENT TO BE LEFT INTACT. THE PC SHALL REMOVE ALL EXISTING FIRE PROTECTION SYSTEMS, PLUMBING FIXTURES, PIPING SYSTEMS, REFRIGERANT SYSTEMS, HVAC SYSTEMS, AND ASSOCIATED ROOF CURBS OR RAILS NOT TO BE REUSED ON THIS PROJECT, UNLESS OTHERWISE NOTED . PC SHALL VERIFY ALL ABANDONED EQUIPMENT TO BE REMOVED (PIPES, DUCTWORK, EQUIPMENT, FIXTURES, ETC.) ARE NOT NEEDED BY OTHER PORTIONS OF THE BUILDING PRIOR TO THEIR REMOVAL. REPAIR THE ROOF MEMBRANE WHEN REMOVING ROOF CURBS, EQUIPMENT SLEEPERS, PIPES, DUCTS OR CONDUITS THROUGH THE ROOF.
- 3. ALL EXTRANEOUS ITEMS IN THE SPACE, ASSOCIATED WITH THE SPACE, OR ON THE ROOF AND NOT APPLICABLE TO THE WORK MUST BE REMOVED AND ROOF/WALL/FLOOR PATCHED/REPAIRED TO MATCH EXISTING SURROUNDINGS. EXISTING ABANDONED (PIPES, DUCTS OR EQUIPMENT) IN THE FLOOR, EMBEDDED IN CONCRETE, OR OTHERWISE INACCESSIBLE TO BE OUT OFF AND SEALED BELOW THE FLOOR OR WALL SURFACE, OR WITHIN THE FLOOR OR WALL WHEN THEY ARE NOT TO BE REUSED IN THIS PROJECT.
- 4. ABANDONED PIPING AND/OR DUCTWORK MUST BE REMOVED BACK TO IT'S POINT OF ORIGIN.
- 5. CONFIRM THE EXTENT OF DEMOLITION PRIOR TO BID AND INCLUDE IN BID PROPOSAL
- G. <u>SLEEVE</u>
- 1. THIS CONTRACTOR SHALL F&I PIPE SLEEVES. SLEEVES SHALL EXTEND THROUGH ITS RESPECTIVE FLOOR, WALL/PARTITION OR ROOF. SLEEVES THROUGH WALLS AND PARTITIONS SHALL BE CUT FLUSH WITH EACH SURFACE. SLEEVES PENETRATING FLOORS SHALL EXTEND 2" ABOVE THE FLOOR. SLEEVES PENETRATING ROOFS SHALL EXTEND 4" ABOVE ROOF SURFACE.
- 2. PC SHALL COORDINATE ANY CORE DRILLING OR CUTTING OF OPENINGS IN MASONRY FLOORS OR WALLS.
- 3. ALL SLEEVES AND OPENINGS THROUGH FIRE-RATED WALLS AND/OR FLOORS SHALL BE FIRE SEALED WITH CALCIUM SILICATE, SILICONE "RTV" FOAM, "3M" FIRE RATED SEALANTS OR APPROVED ALTERNATE. SLEEVES IN BEARING AND MASONRY WALLS, FLOORS, AND PARTITIONS SHALL BE STANDARD WEIGHT STEEL PIPE FINISHED WITH SMOOTH EDGES. FOR OTHER THAN MASONRY PARTITIONS, THROUGH SUSPENDED CEILINGS, OR FOR CONCEALED VERTICAL PIPING, SLEEVES SHALL BE NO. 22 U.S.G. GALVANIZED STEEL MINIMUM.
- H. <u>HANGERS</u>
- 1. F&I HANGERS AND SUPPORTS FOR ALL PIPING AND EQUIPMENT IN ACCORDANCE WITH SMACNA, MSS, ASME, AND ASHRAE STANDARDS.
- 2. HANGERS SHALL INCLUDE ALL MISCELLANEOUS STEEL SUCH AS ANGLE IRON, BANDS, C-CLAMPS WITH RETAINING CLIPS, CHANNELS, HANGER RODS, ETC., NECESSARY FOR THE INSTALLATION OF WORK.
- 3. HANGERS SHALL BE FASTENED TO BUILDING STEEL/STRUCTURE, CONCRETE OR MASONRY. HANGING FROM METAL DECK IS NOT PERMITTED. HANGERS MUST BE ATTACHED TO UPPER CHORDS OF BAR JOISTS. WHERE INTERFERENCES OCCUR, THE PC SHALL INSTALL TRAPEZE TYPE HANGERS OR SUPPORTS WHICH SHALL BE LOCATED WHERE THEY DO NOT INTERFERE WITH ACCESS TO FIRE DAMPERS, VALVES, MAINTENANCE REQUIREMENTS AND OTHER EQUIPMENT.
- 4. HANGERS FOR ALL INSULATED PIPING SHALL BE SIZED AND INSTALLED FOR THE OUTER DIAMETER OF INSULATION. INSTALL 6" LONG SPLIT CIRCLE GALVANIZED SADDLE BETWEEN THE HANGER AND THE PIPE INSULATION. F&I HIGH DENSITY INSULATION INSERT BETWEEN THE SADDLE AND THE PIPE.
- 5. HANGERS AND PIPING OF DISSIMILAR METALS SHALL BE DI-ELECTRICALLY SEPARATED.
- I. <u>DIRT AND DUST CONTROL</u>
- 1. PROTECT AREAS ADJACENT TO THE WORK BEING PERFORMED. SCREEN OFF ALL AREAS WHERE CONSTRUCTION IS TO TAKE PLACE FROM THE AREAS TO REMAIN INHABITED. INHABITED AREAS SHALL REMAIN DUST AND DEBRIS FREE DURING CONSTRUCTION.
- 2. CLEAN ALL AREAS OUTSIDE DESIGNATED CONSTRUCTION AREA WHICH MAY HAVE BECOME SOILED DUE TO CONSTRUCTION.
- J. EQUIPMENT, PIPING, INSULATION AND INSTALLATION
- 1. REFER TO PLANS FOR SCHEDULES OF EQUIPMENT AND FIXTURES. AMERICAN STANDARD, KOHLER AND CRANE ARE CONSIDERED ACCEPTABLE AS EQUALS.
- 2. MAINTAIN A MINIMUM CLEARANCE OF 6" BETWEEN PLUMBING PIPING AND EQUIPMENT AND ALL FIRE/SMOKE RATED WALLS.

- DOCUMENTS.

- K. POTABLE WATER PIPING
  - JOINTS.

DRAWINGS.

- M. <u>GAS PIPING</u>

- GROUND, ETC.).

- I. LABELS/PIPE MARKERS
- EQUIPMENT.
- J. <u>STEEL FRAMING FOR SUPPORT</u>
- - 11. <u>SYSTEM START-UP</u>

L. <u>FINAL INSPECTIONS</u>

- INTO COMPLIANCE.

3. INSTALL EQUIPMENT IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS. INSTALL UNITS LEVEL AND PLUMB, AT RIGHT ANGLES TO THE STRUCTURE. FIRMLY ANCHORED UNITS IN LOCATIONS INDICATED BY THE

5. PIPING OF DISSIMILAR METALS SHALL BE DI-ELECTRICALLY SEPARATED WITH INSULATED FITTINGS. 6. FIELD VERIFY CONNECTION POINTS PRIOR TO SUBMITTING BID AND NOTIFY ENGINEER IF CONDITIONS ARE NOT AS SHOWN ON THE PLANS OR AS STATED IN THE SPECIFICATIONS. CONTRACTOR SHALL VERIFY THE OPERABILITY OF ENTIRE SYSTEM PRIOR TO TIE-IN AS FOLLOWS:

a. SNAKE SANITARY FOR A DISTANCE OF 100 FEET AND REPORT ANY BLOCKAGE.

b. TEST WATER PRESSURE TO INSURE MINIMUM PSI MATCHES MOST DEMANDING EQUIPMENT SUPPLIED. 7. INSULATE THE TRAP, SANITARY AND SUPPLY PIPES UNDER LAVATORIES WITH TRUEBRO MODEL 102W "HANDI LAV GUARD" INSULATION KIT OR EQUAL.

8. INSULATE AIR CONDITIONING CONDENSATE DRAIN LINES BELOW THE ROOF. INSULATION TO BE 🐉 THICK CLOSED CELL CONTINUOUS TUBE INSULATION BY AEROFLEX. CLOSURE SYSTEM AS RECOMMENDED BY THE MANUFACTURER. 9. INSTALL ALL NECESSARY PIPE HANGERS, SADDLES, AND CARRIERS TO PROPERLY SUPPORT ALL PIPING AND FIXTURES. HANGERS SHALL SUIT TYPE OF PIPING F&I AND BE SPACED AT A MAXIMUM SPAN OF 5 FEET.

1. POTABLE WATER PIPING SHALL BE AS FOLLOWS:

a. BELOW GRADE: TYPE 'K' ANNEALED COPPER TUBE. FOR PIPE SIZES 2 INCHES AND SMALLER. BRAZE ALL

b. ALL OTHER: TYPE 'L' DRAWN TEMPERED COPPER TUBE WITH WROUGHT COPPER FITTINGS AND 95-5 TIN-ANTIMONY SOLDER.

2. INSULATE ALL HOT AND COLD WATER PIPING WITH MINIMUM 1" THICK (K=0.23 @ 75°F) OR MORE AS MAY BE REQUIRED BY LOCAL CODES. FIBERGLASS PIPE INSULATION SHALL HAVE AN ALL SERVICE JACKET. MEET LOCAL CODES AND UL FLAME SPREAD AND SMOKE DEVELOPED RATING. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. 3. STERILIZE WATER SYSTEM IN ACCORDANCE WITH LOCAL CODES.

4. TEST ENTIRE PLUMBING SYSTEM IN ACCORDANCE WITH THE CURRENT PLUMBING CODE.

5. F&I WATER PRESSURE REDUCING VALVE AS REQUIRED TO MAINTAIN A MAXIMUM WATER SERVICE PRESSURE ENTERING THE BUILDING AT 80 PSIG.

6. IF APPLICABLE, F&I METER AND REMOTE READER PER LOCAL UTILITIES REQUIREMENT.

7. VALVES: F&I BALL VALVE NIBCO SERIES 585-70 FOR SHUT-OFF VALVES.

8. F&I ACCESS PANELS WHERE REQUIRED FOR OPERATION, MAINTENANCE AND BALANCING OR PLUMBING EQUIPMENT. 9. F&I WATER HAMMER ARRESTORS AT EACH QUICK CLOSING VALVE AND AS OTHERWISE INDICATED IN THESE

L. <u>SANITARY, WASTE, DRAIN AND VENT (DWV) PIPING</u>

1. CONDENSATE DRAIN: F&I POLYVINYL CHLORINE (PVC) TYPE DWV, SCHEDULE 40 PLASTIC PIPE IN CONFORMANCE WITH STANDARD ASTM D2665.

2. BELOW GRADE DWV PIPING; ALL MATERIAL SHALL BE DWV QUALITY CAST IRON, COPPER, PVC OR ABS PIPING. 3. PRESSURE DWV PIPING: ALL MATERIAL SHALL BE DWV QUALITY CAST IRON.

4. ABOVE GRADE, IN CABINETRY, WALLS, ETC. SHALL BE DWV QUALITY CAST IRON, COPPER, PVC OR ABS PIPING. 5. VENTS THROUGH ROOF (VTR): MATERIAL SHALL BE DWV QUALITY CAST IRON PIPE.

1. FURNISH AND INSTALL A COMPLETE GAS PIPING SYSTEM.

2. GAS LINES SHALL BE BLACK STEEL, SCHEDULE 40, ASTM A-53, WITH MALLEABLE THREADED FITTINGS FOR 2" AND SMALLER, AND WITH WELDED JOINTS FOR 2-1/2" AND LARGER.

3. CORRUGATED STAINLESS STEEL TUBING SHALL BE LISTED IN ACCORDANCE WITH ANSI/CSA 6.26.

4. VENT PIPING AND FITTINGS USED TO CONNECT TO REMOTE VENT TERMINALS SHALL CONFORM TO ANSI/UL 651. 5. CONCEALED PIPING INSTALLED IN SOLID PARTITIONS. WALLS FLOORS OR CEILINGS SHALL BE INSTALLED IN CHASES OR CHANNELS WHICH HAVE COVERINGS TO ALLOW ACCESS TO THE PIPING.

6. GAS PIPING TO SHALL ENTER THE BUILDING THROUGH AN EXTERIOR WALL ABOVE GRADE. THE PIPE AT THE WALL PENETRATION SHALL BE PROTECTED AGAINST CORROSION BY AN INERT PIPE WRAP OR SLEEVE. IF A SLEEVE IS USED, THE ANNULAR SPACE BETWEEN THE SLEEVE & PIPE SHALL BE SEALED.

7. FOR LP. GAS PIPES, ISOLATE ABOVE GROUND PIPE FROM BELOW GROUND PIPE WITH AN APPROVED DIELECTRIC FITTING. DIELECTRIC FITTING TO BE PLACED ABOVE GROUND.

8. ALL EXTERIOR GAS PIPING SHALL BE MOUNTED A MINIMUM OF 3.5" ABOVE THE SURFACE BEING RUN UPON (ROOF.

9. FURNISH AND INSTALL A GAS COCK, DIRT LEG, AND UNION CONNECTION AT EACH PIECE OF EQUIPMENT. 10. SUPPORT PIPING EVERY 5 FEET OR AS DICTATED BY LOCAL CODES. WHICHEVER IS MORE STRINGENT.

11. ALL EXPOSED EXTERIOR GAS PIPING SHALL BE PAINTED WITH RUST-INHIBITING PAINT.

12. GAS PIPING INSTALLED IN RETURN AIR PLENUMS SHALL BE SLEEVED AND VENTED OR WELDED IN ACCORDANCE WITH THE LOCAL GAS COMPANY, LOCAL CODE AND APPLICABLE NFPA 54 CODES.

13. TESTING AND PURGING OF GAS PIPING SHALL BE DONE PER THE REQUIREMENTS OF THE LOCAL GAS COMPANY, LOCAL CODES AND APPLICABLE NFPA CODES.

14. CONTACT AND COORDINATE GAS SERVICE, METER AND REGULATOR REQUIREMENTS WITH THE LOCAL GAS COMPANY PRIOR TO BID. INCLUDE INSTALLATION COST OF GAS METER AND REGULATOR IN BID.

1. FURNISH AND INSTALL PIPE IDENTIFICATION MARKERS ON ALL PIPES INSTALLED UNDER THIS CONTRACT. MARKERS SHALL BE A MINIMUM OF 1-1/2" X 8" AND IDENTIFIED IN ACCORDANCE WITH THE BACKGROUND AND LETTER COLORS ISSUED BY THE AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI). MARKERS SHALL BE MANUFACTURED BY CHAMPION AMERICA INC., BRADY, SETON, OR EQUAL.

2. PIPING SHALL BE IDENTIFIED AS FOLLOWS: POTABLE WATER, HOT WATER, VENT, SEWER, CONDENSATE, REFRIGERANT LIQUID, REFRIGERANT SUCTION, AND DIRECTIONAL ARROWS. ALL IDENTIFICATIONS MUST BE VISIBLE AT

1. F&I ALL NECESSARY STEEL FRAMING REQUIRED TO INSTALL ALL HVAC EQUIPMENT AS DESCRIBED OR IMPLIED ON THE DRAWINGS. ALL PENETRATIONS OF EXISTING STRUCTURE SHALL BE DONE AT THIS CONTRACTOR'S EXPENSE.

1. THIS CONTRACTOR SHALL INCLUDE AS A BASE, 2-HOURS OF START-UP TIME PLUS AN ADDITIONAL 2-HOURS OF START-UP TIME PER HVAC UNIT SHOWN ON DRAWINGS.

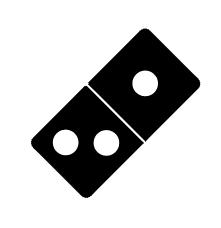
1. ASIDE FROM NORMAL INTERIM INSPECTIONS OF WORK IN PLACE, THE ENGINEER SHALL BE NOTIFIED (IN WRITING) TO INSPECT THE FINISHED INSTALLATION UPON COMPLETION FOR COMPLIANCE WITH THE PLANS, SPECIFICATIONS AND CODES. THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE TO BRING ALL ITEMS REPORTED BY THE ENGINEER

M. PROJECT CLOSEOUT DOCUMENTATION

1. AS PART OF THE PROJECT CLOSEOUT, FURNISH THE OWNER WITH A COMPLETE SET OF OPERATION & MAINTENANCE MANUALS. FURNISH MANUALS ON ALL SYSTEM COMPONENTS. AS A MINIMUM, MANUALS TO CONTAIN INFORMATION ON THE MAKE AND MODEL NUMBERS OF ITEMS AND MAINTENANCE SCHEDULE LISTING MANUFACTURER'S SUGGESTIONS ON THE FREQUENCY OF REQUIRED SERVICE ITEMS FOR ALL COMPONENTS.



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Project No: 5401 / Store #168	Pizza Theater Tenant Improvement	3544 SW Market St., Lee's Summit, MO 64082	for DESZ Managemeent LLC dba Domino's	3901 Blue Ridge Cutoff	Kansas City, MO 64133
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