



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 FOREMENTIONED 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.
- E. 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, MAKELINE AND WALK-IN COOLER BOX.
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.
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.

PROJECT DIRECTORY:

OWNER / DEVELOPER

DESZ MANAGEMENT LLC DBA DOMINO'S
3901 BLUE RIDGE CUTOFF
KANSAS CITY, MO 64133
TEL: (816)501-8388
E: SCOVEY@DTPIZZA.ORG

ARCHITECT CONTACT INFORMATION

GNICH ARCHITECTURE STUDIO, LLC
AN OREGON LIMITED LIABILITY COMPANY
1001 SE SANDY BLVD, SUITE 100
PORTLAND, OR 97214
TEL: (503) 552-9079
FAX: (503) 241-7055
ATTN: 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.

FIRE ALARM SYSTEM

DESIGN/BUILT. G.C. SHALL BE RESPONSIBLE FOR PREPARING DRAWINGS AND OBTAINING ALL BUILDING PERMITS AS REQUIRED BY LOCAL JURISDICTION.

KITCHEN HOOD FIRE SUPPRESSION SYSTEM

DESIGN/BUILT. G.C. SHALL BE RESPONSIBLE FOR PREPARING DRAWINGS AND OBTAINING ALL BUILDING PERMITS AS REQUIRED BY LOCAL JURISDICTION.

FIRE SUPPRESSION / SPRINKLER SYSTEM

DESIGN/BUILT. G.C. SHALL BE RESPONSIBLE FOR PREPARING DRAWINGS AND OBTAINING ALL BUILDING PERMITS AS REQUIRED BY LOCAL JURISDICTION.

DOMINO'S PIZZA BAKERY STORE #1684 PIZZA THEATER TENANT IMPROVEMENT 3544 SW MARKET ST LEE'S SUMMIT, MO 64082

DRAWING INDEX:

GENERAL INFORMATION

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

ARCHITECTURAL

- FLS1.0 FIRE/ LIFE SAFETY PLAN
A1.0 EQUIPMENT LAYOUT/ COUNTER CABINETS/ SCHEDULES
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

- SECTION REFERENCE
DOOR SCHEDULE REFERENCE
CENTERLINE
MASTER MATERIAL SCHEDULE REFERENCE
EQUIPMENT SCHEDULE REFERENCE
ART PACKAGE REFERENCE
WALL ASSEMBLY TYPE REFERENCE
CABINET SCHEDULE REFERENCE
FURNITURE SCHEDULE REFERENCE
ELEVATION REFERENCE
ENLARGED DETAIL REFERENCE
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 RETAIL FOOD BAKERY AND STORE.

CODE SUMMARY

- BUILDING CODE 2018 IBC
MECHANICAL CODE 2018 IMC
PLUMBING CODE 2018 IPC
ENERGY CODE 2018 IECC
FUEL GAS CODE 2018 IFGC
FIRE CODE 2018 IFC
ELECTRICAL 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 VB
AUTOMATIC SPRINKLER SYSTEM YES
TOTAL AREA OF DOMINO'S 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

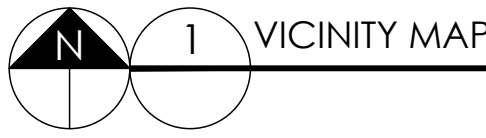
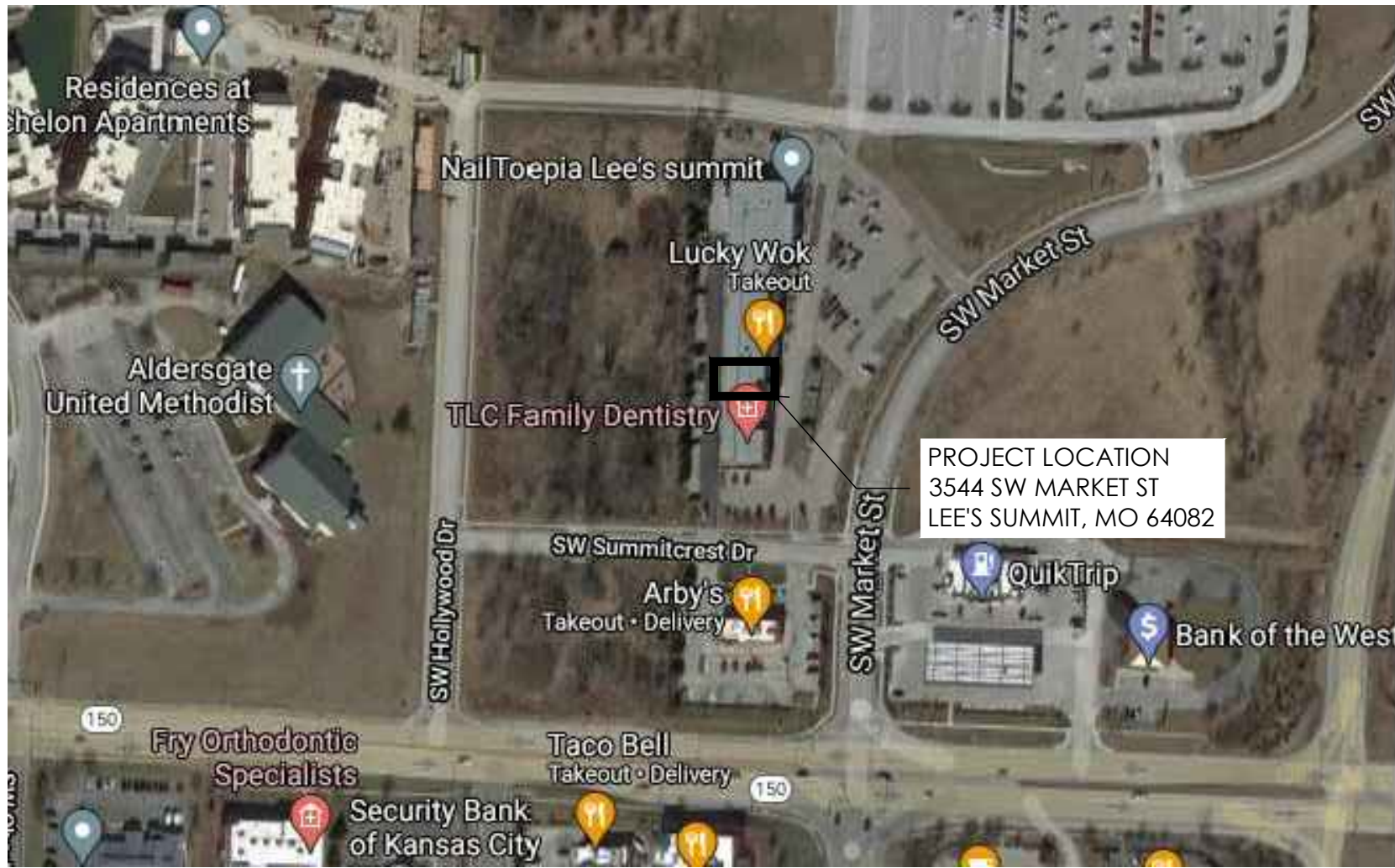
TOTAL OCCUPANT LOAD = 7

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

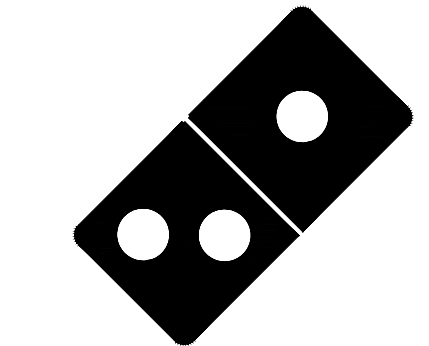
RESPONSIBILITY SCHEDULE												REMARKS
ITEM	PROVIDED BY OWNER	INSTALLED BY OWNER	PROVIDED BY VENDOR	INSTALLED BY VENDOR	BY SUB-CONTRACTOR	BY SUB-CONTRACTOR	BY SUB-CONTRACTOR	BY SUB-CONTRACTOR	BY SUB-CONTRACTOR	BY SUB-CONTRACTOR	BY SUB-CONTRACTOR	
DIVISION 01 - GENERAL REQUIREMENTS												
PERMITS, FEES, AND INSURANCE												
PROFESSIONAL CLEANING												
TEMPORARY POWER / WATER												
CERTIFICATE OF OCCUPANCY												
DUMPSTER / TRASH REMOVAL												
DIVISION 02 - SITE WORK												
TRENCHING AND BACKFILL												
SHORING AND BRACING												
TEMPORARY BARRICADES												COORDINATE REQUIREMENTS w/ CITY AUTHORITIES
PAVING PATCHING AND REPAIR												
DIVISION 03 - CONCRETE												
FLOOR SLAB CUTTING												AS REQUIRED
CONCRETE SLAB PATCHING AND REPAIR												
DIVISION 04 - MASONRY												
CLAY MASONRY UNITS												
CONCRETE MASONRY UNITS												
DIVISION 05 - METALS												
LIGHT GAUGE METAL FRAMING												
COLD FORMED METAL FRAMING												
DIVISION 06 - WOOD AND PLASTICS												
MISCELLANEOUS BLOCKING												
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)												H
SEALANTS, FIRESTOPPING AND CAULKING												
BATT, RIGID AND FOAMED INSULATION												IF REQUIRED
SOUND BATT INSULATION												IF REQUIRED
DIVISION 08 - DOORS AND WINDOWS												
DOOR HARDWARE AND EXIT DEVICES												
GLASS AND GLAZING												
INTERIOR DOORS AND FRAMES												
DIVISION 09 - FINISHES												
ACOUSTICAL CEILINGS AND SUSPENSION SYSTEMS												
GYPSUM BOARD (WALLS, SOFFITS AND CEILINGS)												
FLOOR TILE												
TWILL AND / OR SEAMLESS BASE												
REDUCERS AND TRANSITION STRIPS												
PAINTS AND COATINGS												
SHEET GOODS												
DIVISION 10 - SPECIALTIES												
EXTERIOR SIGNAGE												
EXTERIOR AWNING												IF REQUIRED
INTERIOR GRAPHICS PACKAGE (DOOR SIGNS, ETC.)												
ACCESSIBILITY SIGNAGE												
TOILET ROOM ACCESSORIES												
DIVISION 11 - EQUIPMENT												
COMPUTERS / DATA												E.C. TO RUN CONDUIT IF REQUIRED BY LOCAL MUNICIPALITY
TELECOMMUNICATIONS EQUIPMENT												
VIDEO EQUIPMENT												K
KITCHEN EQUIPMENT												
DIVISION 12 - FURNISHINGS												
SEATING												
MISCELLANEOUS DECOR ITEMS												
DIVISION 13 - SPECIAL CONSTRUCTION												
NO WORK REQUIRED UNDER THIS SECTION												
DIVISION 14 - CONVEYING SYSTEMS												
NO WORK REQUIRED UNDER THIS SECTION												
DIVISION 15 - MECHANICAL AND PLUMBING												
WATER SUPPLY												
DAMPERS												H
DIFFUSER / GRILLES												H
H.V.A.C. HEATING AND COOLING UNITS												
H.V.A.C. DUCTWORK												H
EXHAUST FANS, UTILITY SETS AND DUCTWORK												
LAVATORY FIXTURES AND WATER HEATER												
SANITARY												
SUPPLY, VENT, WASTE PIPING												
KITCHEN EQUIPMENT UTILITY CONNECTIONS												P, H
FIRE PROTECTION SYSTEM (SPRINKLER) (AS REQ.)												S
FIRE PROTECTION SYSTEM (ALARM) (AS REQ.)												FP
EXHAUST HOOD MAKE-UP AIR (AS REQ.)												H
DIVISION 16 - ELECTRICAL												
INTERIOR AND EXTERIOR LIGHT FIXTURES												E
EXIT AND EMERGENCY LIGHTING												E
ELECTRICAL OUTLETS												E
CONDUIT FOR TELEPHONE / DATA WIRES												IF REQUIRED BY LOCAL MUNICIPALITY
FIRE ALARM (AS REQ.)												FP
KITCHEN EQUIPMENT UTILITY CONNECTIONS												E, P, H, FP, G.C.
												FINAL CONNECTIONS BY EACH TRADE SUB-CONTRACTOR



NOT TO SCALE



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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 Management LLC dba Domino's
3901 Blue Ridge Cutoff
Kansas City, MO 64133

ISSUED FOR PERMIT:
04.22.2021

REV: DATE: DESCRIPTION:
05.04.21 CITY COMMENTS

SHEET NAME:

COVER SHEET

SHEET NUMBER:

G1.0

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CODE ANALYSIS			
IBC 2018 AND NFPA 101-2009	EXISTING BUILDING	EXISTING SPACE	PROPOSED SPACE
IBC 2018 BUILDING USE GROUP CLASSIFICATION(S)	B	B	B
NFPA 101 OCCUPANCY CLASSIFICATION(S)	BUSINESS	BUSINESS	BUSINESS
SEPARATED MIXED USE PER IBC/ NFPA (Y/N)	NO	NO	NO
CONSTRUCTION TYPE PER IBC 2018	V-B	V-B	V-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

EXIT ACCESS TRAVEL DISTANCE		
OCCUPANCY	WITHOUT SPRINKLER SYSTEM (FEET)	WITH SPRINKLER SYSTEM (FEET)
A, E, F-1, M, R, S-1	200	250
I-1	NOT PERMITTED	250
B	200	300
F-2, S-2, U	300	400
H-1	NOT PERMITTED	75
H-2	NOT PERMITTED	100
H-3	NOT PERMITTED	150
H-4	NOT PERMITTED	175
H-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)

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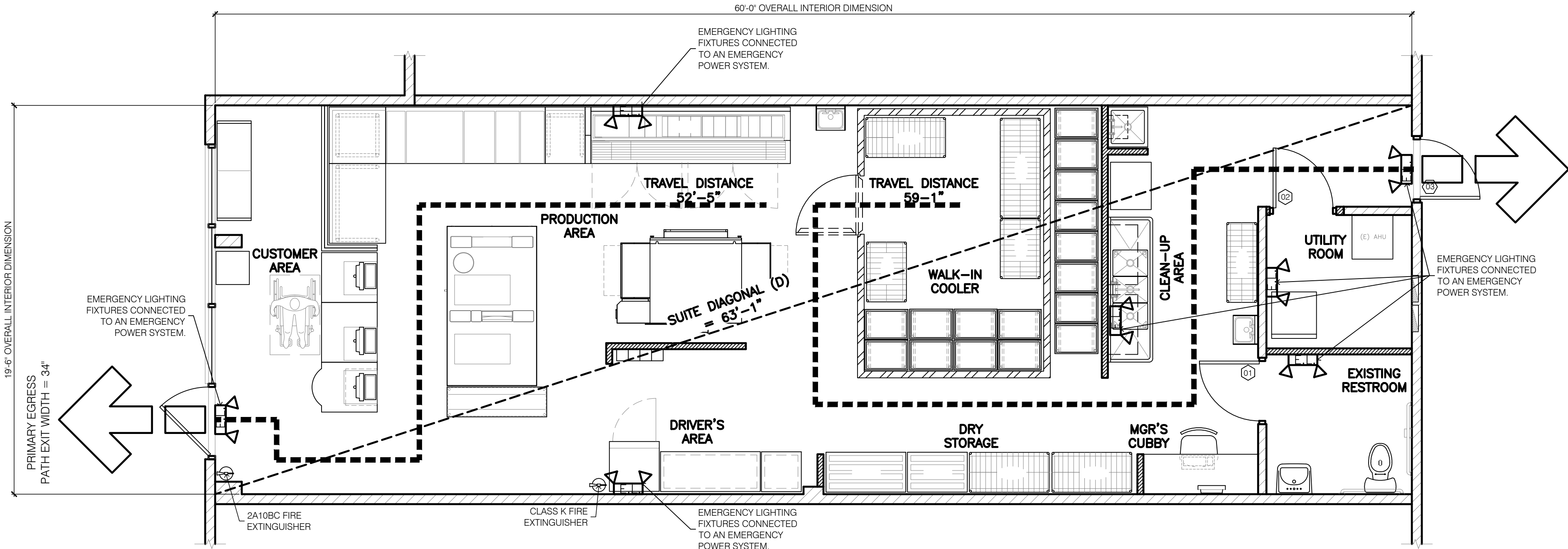
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TOILETS:
TOTAL NUMBER OF TOILET FACILITIES = 1 PROVIDED

FIRE EXTINGUISHER NOTES

- ALL FIRE EXTINGUISHERS SHALL BE STATE OF MISSOURI CERTIFIED. ALL FIRE EXTINGUISHERS SHALL BE PROPERLY MOUNTED AT THE HEIGHT REQUIREMENTS OF NO HIGHER THAN 4'-6" A.F.F. TO THE TOP OF THE EXTINGUISHER AND AT LEAST 6" FROM FLOOR TO THE BOTTOM OF EXTINGUISHER. (NFPA 10: 6.1.3.8)
- ALL PROPERLY MOUNTED FIRE EXTINGUISHERS SHALL NOT EXCEED 75' OF TRAVEL DISTANCE APART. (NFPA 1: 6.1)
- FIRE EXTINGUISHERS SHALL BE CONSPICUOUSLY LOCATED WHERE THEY ARE READILY ACCESSIBLE AND IMMEDIATELY AVAILABLE IN THE EVENT OF FIRE. (NFPA 10: 6.1.3)
- FIRE EXTINGUISHERS SHALL BE LOCATED ALONG NORMAL PATHS OF TRAVEL, INCLUDING EXITS FROM AREAS. (NFPA 10: 6.1.3)
- FIRE EXTINGUISHERS SHALL NOT BE OBSTRUCTED OR OBSCURED FROM VIEW. (NFPA 10: 6.1.3.3)



Project No: 5401 / Store #1684
Domino's Pizza Bakery Store
Pizza Theater Tenant Improvement
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for DESZ Management LLC dba Domino's
3901 Blue Ridge Cutoff
Kansas City, MO 64133

ISSUED FOR PERMIT:
04.22.2021

REV: DATE:	DESCRIPTION:
05.04.21	CITY COMMENTS

SHEET NAME:

FIRE/ LIFE SAFETY PLAN

SHEET NUMBER:

FLS1.0

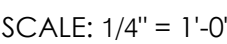
RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
07/16/2021

G

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ARCHITECTURE
STUDIO
AN OREGON LIMITED LIABILITY COMPANY

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04.22.21
STATE OF MISSOURI
JASON D. GNICH
NUMBER A-2011038336
EXP. 12.31.21
ARCHITECT



MASTER MATERIAL SCHEDULE							
MARK	MATERIAL	MANUFACTURER	MODEL #	COLOR	FINISH	COMMENT	CONTACT
CEILING							
CE-01	2' x 2' SCURABLE CEILING TILE	USG CEILINGS	CUMAPLUS SHEETROCK CEILING PANEL #3260 SQUARE EDGE	WHITE	VINYL	PRODUCTION AREA BOH, DURABLE, SMOOTH, NON-ABSORBENT, EASILY CLEANABLE	Chris Benjamin, cbenjamin@usg.com 312.435.4548
CE-02	OPEN CEILING	BY G.C.	SEE PT-06 OR PT-07 FOR PAINT SPECS	PT-06 OR PT-07	PAINT	SEE PT-06 OR PT-07 FOR PAINT SPECS	
CE-03	2' x 2' x 3/4" ACOUSTICAL CEILING TILE	USG CEILINGS	FROST CUMAPLUS CEILING PANEL #414 EDGE GRO PROFILE DONN-CX, COLOR MATCH 565 SENNA	565 SENNA	ACOUSTICAL	FRONT OF HOUSE	Chris Benjamin, cbenjamin@usg.com 312.435.4548
CE-04	2' x 2' x 3/8" ACOUSTICAL CEILING TILE	USG CEILINGS	OLYMPIA MICRO CUMAPLUS CEILING PANEL #4211 EDGE GRO PROFILE DONN-CX	WHITE	ACOUSTICAL	FRONT OF HOUSE, CAN BE PAINTED PT-04 WHEN CT-03 CANNOT BE USED	Chris Benjamin, cbenjamin@usg.com 312.435.4548
FLOOR COVERING & BASE							
FC-01	6" x 24" PORCELAIN TILE	OLYMPIA TILE	SERIES: ARBOR SELECTION GROUT: CUSTOM BUILDING PRODUCT #60 CHARCOAL 1/8" GROUT JOINT	MOKA OLAR.MKA.0624		INSTALL PLANKS WITH A 1/8" OFFSET, FRONT OF HOUSE & CUSTOMER RESTROOMS	Kurt von Koss, kurt@beavertile.com 248.790.2197
FC-01 ALT	6" x 24" PORCELAIN TILE	DALTILE	SERIES: HOMESTEAD SERIES GROUT: CUSTOM BUILDING PRODUCT #47 CHARCOAL 1/8" GROUT JOINT	BETULA		INSTALL PLANKS WITH A 1/8" OFFSET, FRONT OF HOUSE & CUSTOMER RESTROOMS	Jennifer McCormick@Daltile.com 616.862.4748
FC-02	6" x 6" TEXTURED QUARRY TILE	DALTILE	SERIES: TEXTURED SERIES GROUT: CUSTOM BUILDING PRODUCT #47 CHARCOAL 1/8" GROUT JOINT	ASHEN GRAY		INSTALL PLANKS WITH A 1/8" OFFSET, FRONT OF HOUSE & CUSTOMER RESTROOMS	Jennifer McCormick@Daltile.com 616.862.4748
FC-04	6"x6" STRATA TILE	SUMMITVILLE	SERIES: STRATA 1 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-06	6" x 6" SMOOTH QUARRY TILE	DALTILE	SERIES: QUARRY TEXTURES GROUT: CUSTOM BUILDING PRODUCT #60 CHARCOAL 1/8" GROUT JOINT	ASHEN GRAY		PRODUCTION AREA BACK OF HOUSE/ WALK-IN COOLER	Jennifer McCormick@Daltile.com 616.862.4748
FC-07	INSET ENTRY WALKOFF MAT	MATS INC.	ULTRA ENTRY SYSTEM, NEW YORK COLLECTION	BROWN		RECYCLED BLACK VINYL NYLON INSETS. SEE DRAWINGS FOR CUSTOM SIZING.	Mark Sadauskas, msadauskas@matsonline.com 614.743.7146
FC-07 ALT	24"x24" RUBBER FLOOR TILE	JOHNSONITE	RUBBER TILE FLOORING, TEXTURES	26 CHARCOAL	RT ROUNDED	USE WITH VINYL STRIP NOSEING #VIRON-20-B, STEP @ ORDER COUNTER	Laure Baatz, laurie.baatz@johnsonite.com 440.313.8238
FC-08	EPOXY FLOORING	SHERWIN WILLIAMS	GENERAL POLYMERS 3746	SILVER GRAY		CONTACT YOUR LOCAL SHERWIN WILLIAMS REPRESENTATIVE	
FC-09	SHEET VINYL PLR COVERING	POLYFLO LTD.	POLYSAFE STANDARD PUR	TO BE DETERMINED BY OWNER		PRODUCTION AREA BACK OF HOUSE/ WALK-IN COOLER, 4" SITE FORMED COVE WALL BASE PER MANUFACTURER	Kurt Topka,kurt@plamerica.us sales@plamerica.us 717.517.5407
WB-01	6" x 24" TILE WALL BASE	OLYMPIA TILE	SERIES: ARBOR SELECTION GROUT: CUSTOM BUILDING PRODUCT #60 CHARCOAL BROWN 3/16" GROUT JOINT	MOKA OLAR.MKA.0624		FRONT OF HOUSE, TILE TO BE TURNED ON IT SIDE, CAP WITH BRUSHED ALUMINUM SCHLUTER STRIP	Kurt von Koss, kurt@beavertile.com 248.790.2197
WB-01 ALT	6" x 24" TILE WALL BASE	DALTILE	SERIES: HOMESTEAD SERIES GROUT: CUSTOM BUILDING PRODUCT #47 CHARCOAL 3/16" GROUT JOINT	BETULA		FRONT OF HOUSE, TILE TO BE TURNED ON IT SIDE, CAP WITH BRUSHED ALUMINUM SCHLUTER STRIP	Jennifer McCormick@Daltile.com 616.862.4748
WB-02	6" x 6" SMOOTH QUARRY TILE COVERED BASE W/ 3/8" COVE	DALTILE	SERIES: QUARRY BASICS GROUT: CUSTOM BUILDING PRODUCT #60 CHARCOAL 3/16" GROUT JOINT	507 PURITAN GRAY		BACK OF HOUSE, WALK-IN COOLER, 6" x 6" COVE BASE OUTSIDE CORNER, 1" x 6" COVE BASE INSIDE CORNER	Kurt von Koss, kurt@beavertile.com 248.790.2197
WB-02 ALT	6" x 6" SMOOTH QUARRY TILE COVERED BASE W/ 3/8" COVE	DALTILE	SERIES: QUARRY TEXTURES GROUT: CUSTOM BUILDING PRODUCT #60 CHARCOAL 3/16" GROUT JOINT	0709 ASHEN GRAY		BACK OF HOUSE, WALK-IN COOLER, 6" x 6" COVE BASE OUTSIDE CORNER, 1" x 6" COVE BASE INSIDE CORNER	Jennifer McCormick@Daltile.com 616.862.4748
WB-03	6" x 6" SMOOTH QUARRY TILE COVERED 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	0709 ASHEN WHITE		CUSTOMER ACCESSIBLE RESTROOMS	Jennifer McCormick@Daltile.com 616.862.4748
T-01	TRANSITION STRIP	JOHNSONITE	#ACE-76C W/ METAL TRACK TRACK-WIT-0-A	76 CINNAMON		TRANSITION FROM 3/8" THICK FOH PORCELAIN TILE TO 1/2" THICK BOH QUARRY TILE	Laure Baatz, laurie.baatz@johnsonite.com 440.313.8238
T-01 ALT	TRANSITION STRIP	JOHNSONITE	#SLT-76-F SLIM LINE TRANSITIONS	76 CINNAMON		TRANSITION FROM 3/8" THICK FOH PORCELAIN TILE TO 1/4" THICK BOH PORCELAIN TILE	Laure Baatz, laurie.baatz@johnsonite.com 440.313.8238
T-02	TRANSITION STRIP	SCHLUTER	SCHENE	ANODIZED ALUMINUM - AJATB		TRANSITION FROM LOBBY TILE FLOOR BASE TO WALL FINISH & TRANSITION FROM PORCELAIN TILE TO INSET WALK-OFF MAT	www.schluter.com 800.667.8746
T-03	TRANSITION STRIP	SCHLUTER	SCHENE	STAINLESS STEEL - E		TRANSITION FROM BATHROOM WALL TILE TO BLUE PAINT & TRANSITION FROM KITCHEN WALL TILE TO ANY OTHER WALL SURFACE	www.schluter.com 800.667.8746
PAINT							
PT-01	RED PAINT	SHERWIN WILLIAMS PROMAR 200 BRAND	INTERIOR WALLS: SEMI-GLOSS EXTERIOR TRIM AND HARDPLANK: SATIN FINISH	REAL RED SW6585	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 HARDPLANK: SATIN FINISH	CALIFORNIA BLUE 2060-20	MATTE (EGGSHELL)	RESTROOM WALLS ABOVE SUBWAY TILE	www.benjaminmoore.com 866.708.9181
PT-03	CRUST PAINT	SHERWIN WILLIAMS PROMAR 200 BRAND	INTERIOR WALLS: SEMI-GLOSS EXTERIOR WALLS AND TRIM: SATIN FINISH	BAGUETTE SW6123	MATTE (EGGSHELL)	PROMAR 200 BRAND REQUIRED FOR VINYL GRAPHICS TO PROPERLY ADHERE	www.sherwin-williams.com 800.321.8194
PT-04	DROP CEILING PAINT	SHERWIN WILLIAMS	DROP CEILING, MATTE FINISH	CHIRCHILLA SW6111	MATTE	DROP CEILING AND DIFFUSER PAINT	www.sherwin-williams.com 800.321.8194
PT-05	CHALKBOARD PAINT	BENJAMIN MOORE	BLACK CHALKBOARD PAINT USE A PRIMER WITH A HARDENER ADDITIVE	307-40		INTERIOR WALLS AS NOTED MINIMUM 5 COATS	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)	MATTE (EGGSHELL)	OPEN CEILING WALLS AND DIFFUSER PAINT 11'-0" AND ABOVE	www.sherwin-williams.com 800.321.8194
PT-08	POWDERCOAT PAINT	IFS COATINGS, INC.	MILLWORK, FIXTURES AND OR FURNITURE	SILVER SPARKLE PRSS 80709	MATTE (EGGSHELL)	DINING LEGS AND BASE PLATE, POST FASCIA	Brandon Phillips, bphillips@ifsccs.com 866.457.2864
PT-09	WHITE PAINT	SHERWIN WILLIAMS	INTERIOR WALLS: EGGSHELL FINISH EXTERIOR TRIM AND ACCENT: SATIN FINISH	EXTRA WHITE SW7006	MATTE (EGGSHELL)	EXTERIOR TRIM AND BUILDING COLOR, INTERIOR PAINT AS NOTED	www.sherwin-williams.com 800.321.8194
PT-11	PATINA BLUE PAINT	KOBDOT STUDIOS	CUSTOM PATINA FINISH TO MATCH OWNERS CONTROL SAMPLE	CUSTOM PT-02 AS BASE		WEATHERED LOOK EXTERIOR PAINT OVER BRICK AND HARDPLANK	Jerry Ullman, jerry@kpcdot.com 614.389.0969
PT-12	WHITE FRP PAINT	US COATING SOLUTIONS	DOMINOS SUPER COAT PAINT: WALL EPOXY SYSTEM	DOMINOS WHITE	NA	FOR RE-PAINING EXIST. WHITE FRP & WALK-IN COOLER WITHIN CUST. VIEW	Gay Hanson, 586.313.3033
WALL COVERING							
WT-01	WHITE SUBWAY TILE	OLYMPIA TILE	SERIES: COLOR AND DIMENSION 100 ULTRA WHITE 3" x 6" GROUT: 1/8" GROUT JOINT, WHITE NON-SANDED GROUT	ARCTIC WHITE	BRIGHT	PRODUCTION AREA AND RESTROOMS, CAP W/ 6" x 2" TRIM CAP OR BULLNODGE	Kurt von Koss, kurt@beavertile.com 248.790.2197
WT-02	WHITE SUBWAY TILE	DALTILE	SERIES: LARGO 3" x 6" LRB WHITE GROUT: 1/8" GROUT JOINT, WHITE NON-SANDED GROUT	WHITE	BRIGHT	PRODUCTION AREA AND RESTROOMS, CAP W/ 6" x 2" TRIM CAP OR BULLNODGE	Derrick Rose, drose@beavertile.com 248.476.2333
WT-03	WHITE SUBWAY TILE	DALTILE	SERIES: LARGO 3" x 6" LRB WHITE GROUT: 1/8" GROUT JOINT, WHITE NON-SANDED GROUT	VITRUMIAN WHITE	GLOSSY	PRODUCTION AREA AND RESTROOMS, CAP W/ 6" x 2" TRIM CAP OR BULLNODGE	Jennifer McCormick@Daltile.com 616.862.4748
WT-04	WHITE FRP WALL PANEL (STANDARD)	MARLITE	P-100 PEBBLE SURFACE	WHITE		BOX OUT OF CUSTOMER SIGHT	Tim Pinnow, tpinnow@marlite.com 330.260.7631
WT-05	BEIGE FRP WALL PANEL	MARLITE	P-106 PEBBLE SURFACE	BEIGE		RE-IMAGE CHAIR RAIL, VESTIBULE, AS REQUIRED	Tim Pinnow, tpinnow@marlite.com 330.260.7631
WT-06	RED FRP WALL PANEL (STANDARD)	CRANE COMPOSITES	STC - SANDSTONE SURFACE	731 RED		RE-IMAGE CHAIR RAIL, VESTIBULE, AS REQUIRED	www.craneocomposites.com 800.430.0900
WT-07	RED SUBWAY TILE	BEAVERTILE	3" x 6" RED SUBWAY TILE GROUT: 1/8" GROUT JOINT, WHITE NON-SANDED GROUT	RED PEPPER		60" A.F.F. IN PRODUCTION AREA WHERE WHITE SUBWAY TILE IS INSTALLED	Kurt von Koss, kurt@beavertile.com 248.790.2197
WT-08	RED SUBWAY TILE	DALTILE	3" x 6" RED SUBWAY TILE GROUT: 1/8" GROUT JOINT, WHITE NON-SANDED GROUT	CURRENT RED		60" A.F.F. IN PRODUCTION AREA WHERE WHITE SUBWAY TILE IS INSTALLED	Jennifer McCormick@Daltile.com 616.862.4748
WT-09	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-10	BLUE SUBWAY TILE	DALTILE	3" x 6" BLUE SUBWAY TILE GROUT: 1/8" GROUT JOINT, WHITE NON-SANDED GROUT	COBALT BLUE		PT-02 ALTERNATE, IN RESTROOMS ABV WHITE SUBWAY TILE	Jennifer McCormick@Daltile.com 616.862.4748
WT-11	BLUE SUBWAY TILE	DALTILE	3" x 6" BLUE SUBWAY TILE GROUT: 1/8" GROUT JOINT, WHITE NON-SANDED GROUT	SEA BREEZE	LESS BRIGHT	PT-02 ALTERNATE, IN RESTROOMS ABV WHITE SUBWAY TILE	Jennifer McCormick@Daltile.com 616.862.4748
PLASTIC LAMINATE							
PL-01	LAMINATE	WILSONART	1573-60	FROSTY WHITE	MATTE	AS REQUIRED	Leslie Humphrey, humphr@wilsonart.com 614.860.6953
PL-02	LAMINATE	NEVAMAR	51027T	LIBERTY RED	TEXTURED	RED ELEMENT, RE-IMAGE CHAIR RAIL, VESTIBULE, AS REQUIRED	Tom Cartwright, tom_cartwright@pandam.com 937.477.7837
PL-03	LAMINATE	FORMICA	1903-58	CAFE	MATTE	RE-IMAGE CHAIR RAIL, VESTIBULE, AS REQUIRED	www.formica.com 800.367.6422
PL-04	LAMINATE	WILSONART	7941K-18	TAN ECHO	LINEARTY	STANDING/ DINING LEDGES, TABLE TOPS	Leslie Humphrey, humphr@wilsonart.com 614.860.6953
PL-05	LAMINATE	WILSONART	4830K-18	SATIN STAINLESS	LINEARTY	MAKELINE/ DOUGH WALL FASCIA ON CUSTOMER SIDE	Leslie Humphrey, humphr@wilsonart.com 614.860.6953
METAL							
MT-01	STAINLESS STEEL	CHEMETAL	700 SERIES HPL CLASSICS	BRUSHED NATURAL ALUMINUM #702	BRUSHED	MAKELINE/ DOUGH WALL FASCIA ON CUSTOMER SIDE (HIGHER END OPTION)	chemetal.com 800.807.7341
MT-02	STAINLESS STEEL		16 GA. S.S. W/ HEMMED TOP AND SIDES			FLOOR TO CEIL. BEHIND OVEN & HOOD, 4" BASE ON CHILD STEP	GENERAL CONTRACTOR TO PROVIDE
SOLID SURFACE							
SS-01	SOLID SURFACE	CORIAN BY DUPONT	TERRA COLLECTION 1/2" THICK	AURORA		DOUGH COUNTERTOP, CUSTOMER LEDGE AT DOUGH FEATURE, POSS COUNTERTOP	Dave Greening, dave@d.greeningsdupont.com 614.976.9700
WINDOW SHADES							
WS-01	SOLAR WINDOW SHADES	MECHO SHADES	THERMOVEL BASKET WEAVES 1304 65" AND 96" SINGLE BRACKET MANUAL DRIVE SYSTEM	1304 BLACK/ BROWN	OPENNESS: 5%	FRONT WINDOWS	Ded Mak, dmak@kma.com 614.563.0569
WS-02	SOLAR WINDOW SHADES	MECHO SHADES	THERMOVEL BASKET WEAVES 1317 65" AND 96" SINGLE BRACKET MANUAL DRIVE SYSTEM	1317 STRAW	OPENNESS: 5%	FRONT WINDOWS	Ded Mak, dmak@kma.com 614.563.0569
FABRIC							
FB-01	EXTERIOR AWNING	SUNBRELLA	#4656 46" WIDE, 100% SOLUTION DIED ACRYLIC	LOGO RED		EXTERIOR AWNINGS	Glen Raven Custom Fabrics 336.221.2211
FB-02	EXTERIOR AWNING	COOLEY SIGN AND AWNING PRODUCTS	COOLEY WHITE	#0132 BRIGHT RED		EXTERIOR AWNINGS	www.cooleygroup.com 800.982.0072
GUARDS							
CG-01	CORNER GUARD	BY G.C.	FULL HEIGHT 2" x 2" 16 GA. STAINLESS STEEL CORNER GUARDS	STAINLESS STEEL	BRUSHED	REQUIRED ALL OUTSIDE CORNERS	
CG-02	END CAP CORNER GUARD	BY G.C.	FULL HEIGHT 16 GA. STAINLESS STEEL WALL END CAP W/ 2" RETURNS	STAINLESS STEEL	BRUSHED	REQUIRED ALL WALL END CAPS	

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

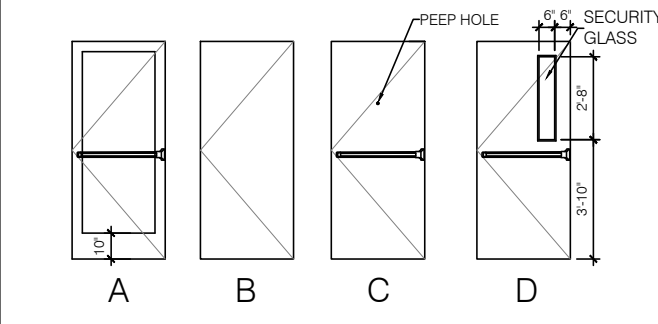
SEE PARTITION & FINISH PLAN FOR WALL FINISH

2 WALL ASSEMBLY TYPES

NOT TO SCALE

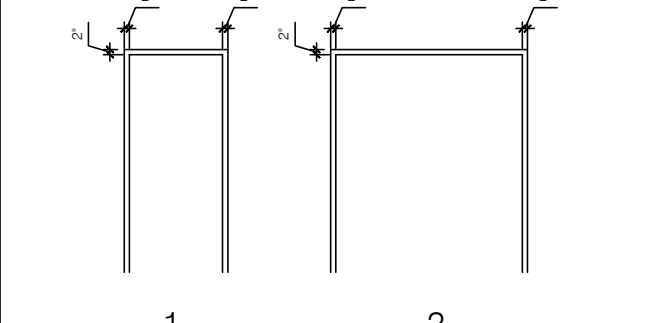
DOOR SCHEDULE									
Q	SIZE	TYPE	DR	FR	GLASS	MATERIAL	HARDWARE	NOTES	
01	3'-0"	6'-6"	B	1		SCMD	HM	GROUP 1	B2,D,F
02	2'-0"	6'-6"	B	1		SCMD	HM	GROUP 2	B2,F
03	3'-0"	7'-0"	D	1	TEMP	STL	HM	GROUP 3	A,B2,C,D,E,F
NOTES:									
A ENSURE EMERGENCY HARDWARE IN WORKING CONDITION OR ADD NEW.									
B1 DOOR AND FRAME SHALL BE PAINTED PT-01									
B2 DOOR AND FRAME SHALL BE PAINTED PT-10									
C DOOR TO HAVE SIGN POSTED ABOVE THAT STATES "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS"									
D CLOSER SHALL BE BOLTED THROUGH DOOR LEAF AND ARM MOUNTED USING HEAD-JAMB MOUNT.									
E PROVIDE A D.A. COMPLIANT THRESHOLD SET IN SILICONE SEALANT, IF NOT EXISTING.									
F THE MAX. PULL/PUSH EFFORT TO OPERATE DOORS SHALL NOT EXCEED 5 LBS. FORCES SHALL BE APPLIED TO THE LATCH SIDE OF THE DOOR.									

DOOR TYPE SCHEDULE



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

DOOR FRAME TYPE SCHEDULE



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

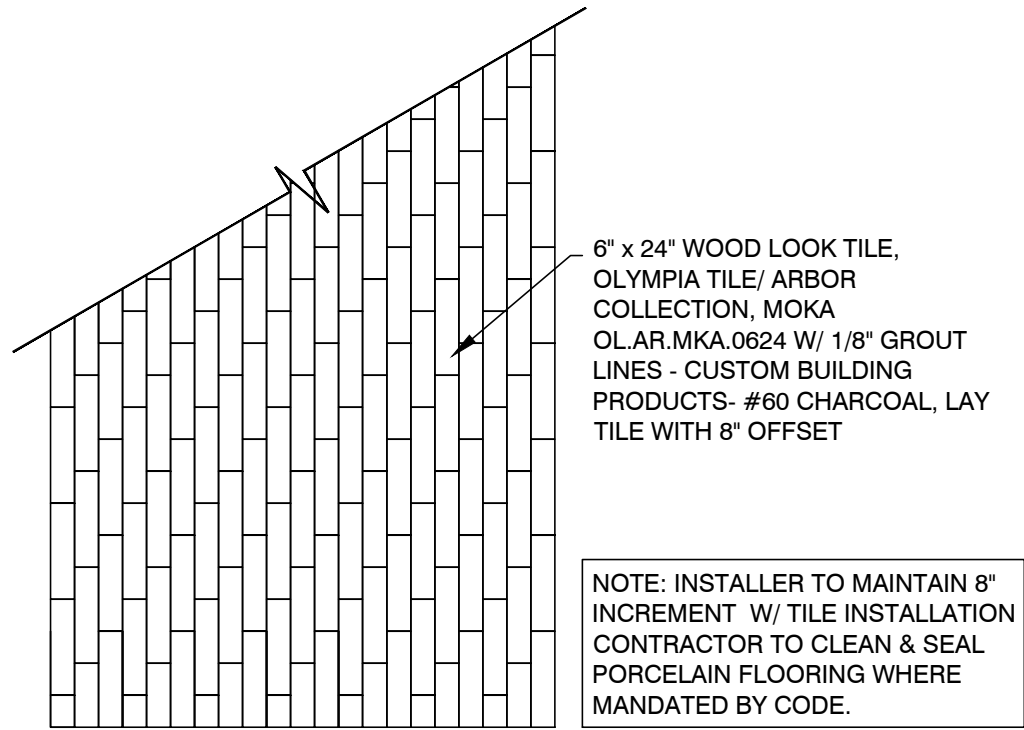
HARDWARE GROUPS

GROUP 1: RESTROOM DOORS
(1 1/2 PAIR) HINGES: COMMERCIAL
(1) SILENCER
(1) DOOR STOP: WALL MTD.
(1) LATCH/STP: PRIVACY FUNCTION
(1) CLOSER

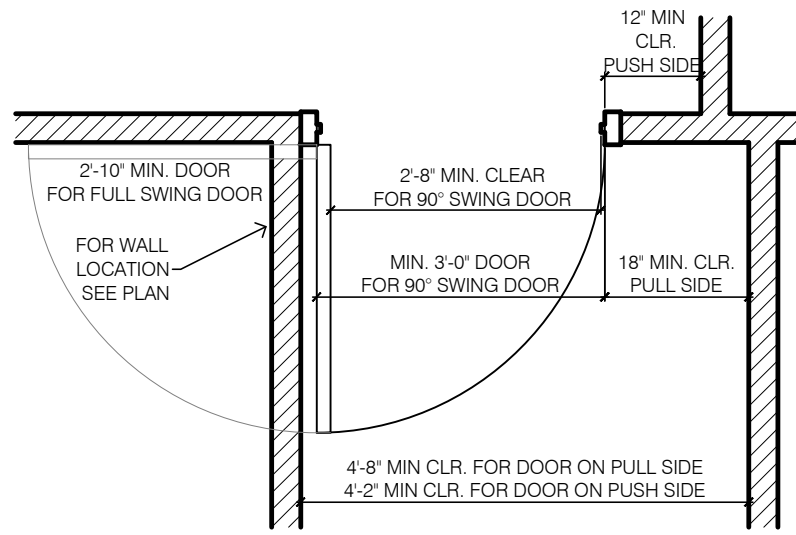
GROUP 2: UTILITY ROOM DOOR
(1 1/2 PAIR) HINGES: COMMERCIAL
(1) SILENCER
(1) DOOR STOP: WALL MTD.
(1) LATCH/STP: PASSAGE FUNCTION
(1) CLOSER

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) ELECTROMAGNETIC LATCH RELEASE
(1) EMERGENCY HARDWARE

NOTE: HAND-ACTUATED DOOR-OPENING HARDWARE SHALL BE CENTERED BETWEEN 30 AND 44 INCHES ABOVE THE FLOOR. LATCHING AND LOCKING DOORS THAT ARE HAND-ACTUATED 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.



4 LOBBY FLOOR TILE PATTERN
SEE PARTITION & FINISH PLAN A2.0 FOR TILE DIRECTION
SCALE: 1/4" = 1'-0"



3 TYPICAL DOOR PLAN FOR WHEELCHAIR ACCESS
SCALE: 1/2" = 1'-0"

GENERAL NOTES

- ALL DIMENSIONS OF NEW WALLS TO FACE OF STUD UNLESS OTHERWISE NOTED.
 - G.C. TO VERIFY ALL DIMENSIONS IN THE FIELD BEFORE COMMENCING CONSTRUCTION.
 - ALL INTERIOR FINISHES SHALL COMPLY WITH SECTION 803. INTERIOR FINISH MATERIALS APPLIED TO WALL AND CEILINGS SHALL BE TESTED AS SPECIFIED IN SECTION 803.
- FLAME SPREAD RATINGS:
WALL TILE - CLASS A - <25
WALL PAINT - CLASS A - <5
PLASTIC LAMINATE - CLASS A - <25
FRP PANELS - CLASS A - <25
STAINLESS STEEL CORNER GUARDS - CLASS A - <25
CEILING TILE - CLASS A - <25

PARTITION KEY

- EXISTING CONSTRUCTION TO REMAIN
- NEW INTERIOR PARTITION, EXTEND TO 6" ABV. SUSP. CLG. - SEE TYP. INTERIOR PARTITION DETAIL
- NEW PARTIAL HT. WALL W/ TEMPERED GLASS SNEEZE GUARD
- NEW PRE-FAB WALK-IN COOLER
- NEW LOBBY FLOOR TILE FC-01

DOOR NOTES:

- THIS PLAN IS ISSUED SO THAT THE CONTRACTOR CAN MAINTAIN FULL COMPLIANCE WITH THE ACCESSIBILITY CODES (ANSI 117.1) AND THE AMERICAN WITH DISABILITIES ACT FOR WHEELCHAIR MANUEVERABILITY AT DOORS. THIS DETAIL INDICATES PARTIAL REQUIREMENTS OF THE CODE. IT IS ADVISED THAT THE CONTRACTOR OBTAIN A COMPLETE COPY OF THESE CODES FOR REFERENCE.
- THE DIMENSIONS SHOWN ARE CRITICAL FOR COMPLIANCE WITH THE CODES. IT IS THE CONTRACTORS RESPONSIBILITY TO INSURE PROPER CLEARANCES FOR WHEELCHAIR MANUEVERABILITY. IF CONFLICTS OCCUR, BRING TO DESIGNERS ATTENTION IMMEDIATELY.
- FOR FULL SWING DOORS A MINIMUM 2'-10" WIDE DOOR IS REQUIRED FOR CLEARANCE. FOR 90° SWING DOORS A MINIMUM 3'-0" WIDE DOOR IS REQUIRED FOR CLEARANCE.
- IN ORDER TO ACHIEVE THE REQUIRED 12" OR 18" MINIMUM CLEARANCES AT DOOR AND A MINIMUM PASSAGE WIDTH, THE DOOR FRAME AT HINGE SIDE MAY HAVE TO BE AGAINST THE ADJACENT WALL.
- THE MAXIMUM EFFORT FOR BOTH INTERIOR AND EXTERIOR DOORS IS 5 POUNDS.
- FLOOR LEVEL AT DOORS NOT TO BE MORE THAN 1/2 INCH LOWER THAN THE THRESHOLD REQUIREMENTS.
- EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
- DOOR CLOSERS SHALL BE ADJUSTED SO THAT FROM AN OPEN POSITION OF 90 DEGREES, THE TIME REQUIRED TO MOVE THE DOOR TO A POSITION OF 12 DEGREES FROM THE LATCH IS 5 SECONDS MINIMUM.

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 07/16/2021

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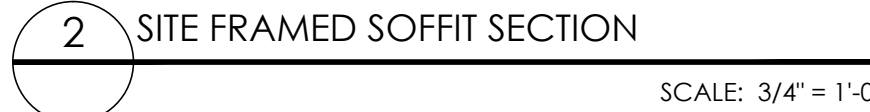
GNICH ARCHITECTURE STUDIO AN OREGON LIMITED LIABILITY COMPANY

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

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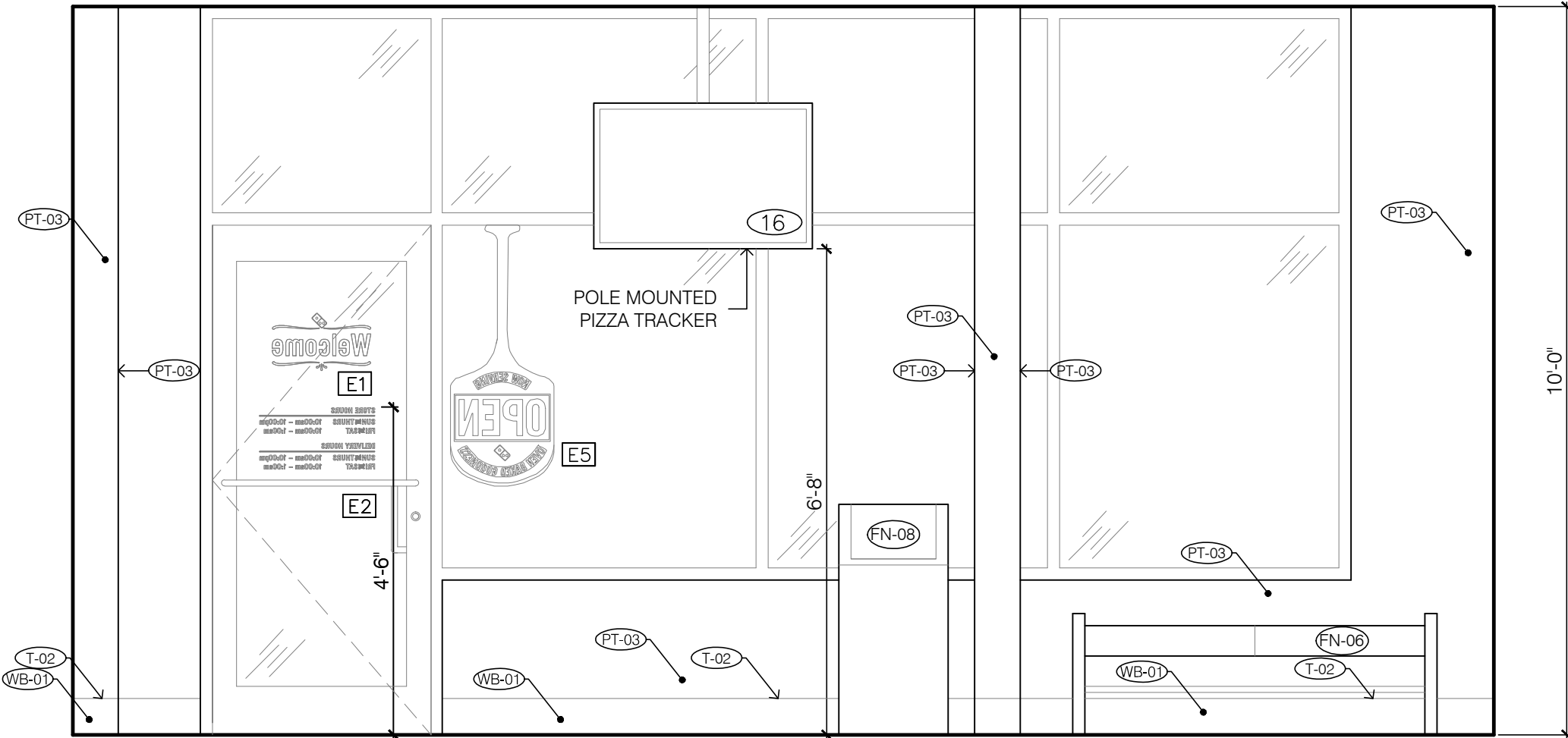
STATE OF MISSOURI JASON D. GNICH ARCHITECT NUMBER A-2011038336 EXP. 12.31.21

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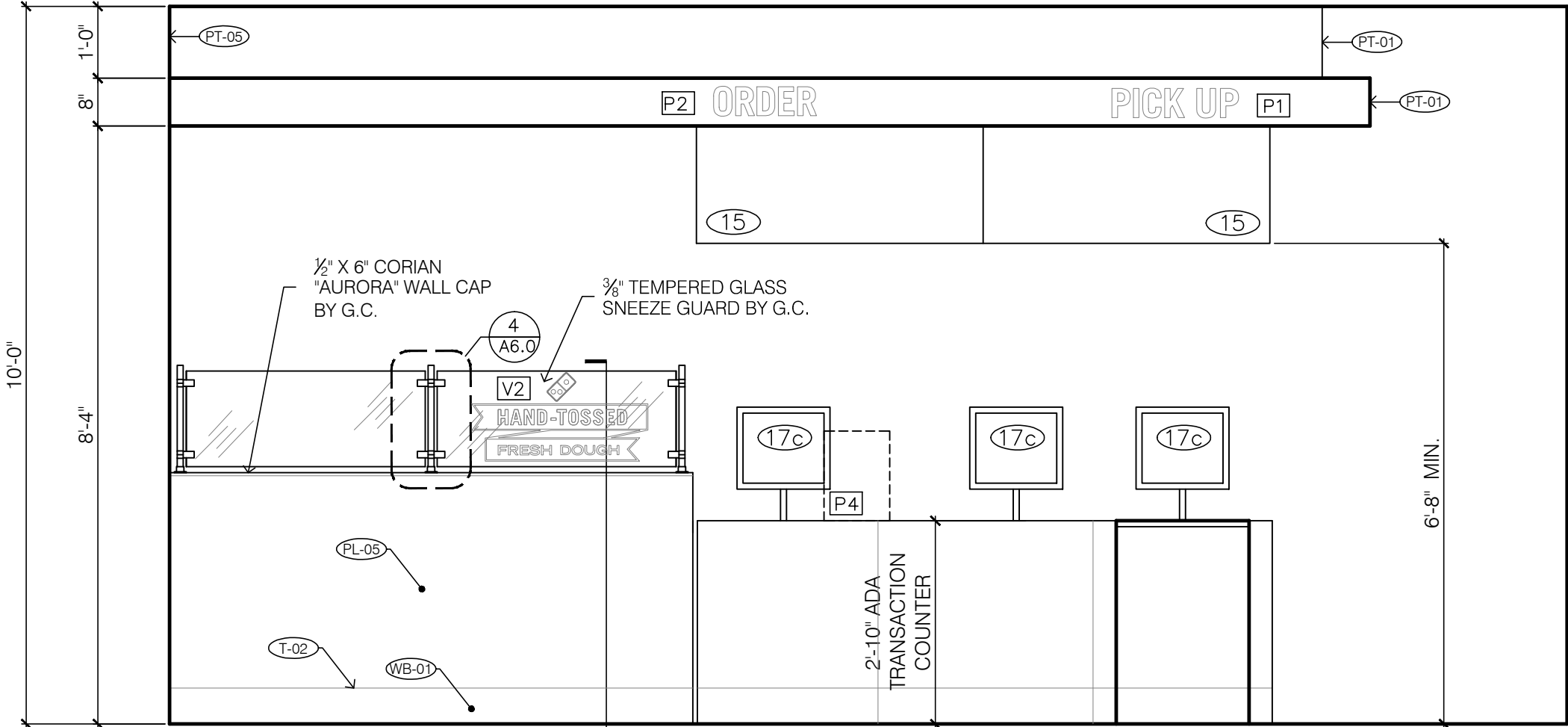


ART PACKAGE SCHEDULE			SCHEDULES ARE NOT INTENDED TO BE ALL INCLUSIVE. STORE OWNER IS TO BE ULTIMATELY RESPONSIBLE FOR ALL ORDERS.	
MARK	QTY	DESCRIPTION	PRODUCT CODE	REMARKS
GRAPHICS: ENTRYWAY				
E1	1	WELCOME CUSTOMER ENTRY DOOR	PC273243	EVERY PIZZA THEATER STORE MUST ORDER
E2	1	STORE HOURS VINYL PER DOMINO'S STANDARDS	BY OWNER	
E3		WELCOME GLASS PARTITION WALL VINYL	PC237260	
E4		PICK-UP WINDOW OPEN PEEL SIGN - HALO LIT	PC284052	UTILIZED AS A SECOND SIGN IN STORES THAT NEED IT
E5	1	NOW SERVING OPEN PEEL SIGN - HALO LIT	PC284050	EVERY PIZZA THEATER STORE MUST ORDER
E6		LOGO - EXTERIOR WINDOW VINYL	PC273259	
GRAPHICS: 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)
W4		COLORED NEWSPRINT WALLPAPER #4	PC283094	OPTIONAL RESIN BOARD (PC283084)
W5		BLUE LOYALTY WALL PANEL	-	TEXTURED SURFACE VINYL BY MLE
GRAPHICS: LOBBY WALLS				
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 SEPARATELY - PC 273263
L3		INGREDIENT PIZZA PAN ART (SET OF 4)	PC273211	5'-2" AFF TO BOTTOM OF PANS. EVERY REMODEL MUST HAVE EITHER PAN ART OR LOBBY FRAMED PHOTO COLLAGE.
L4		WHY WAIT & MCB PAN ART (SET OF 2)	PC273230	5'-2" AFF TO BOTTOM OF PANS. EVERY NEW STORE MUST HAVE LOBBY FRAMED ART AND ONE PAN ART PACKAGE.
L5		PEPPER & DOM PAN ART (SET OF 2)	PC273251	5'-2" AFF TO BOTTOM OF PANS. EVERY NEW STORE MUST HAVE LOBBY FRAMED ART AND ONE PAN ART PACKAGE.
L6		ANYWARE & SC BREAD PAN ART (SET OF 2)	PC273266	5'-2" AFF TO BOTTOM OF PANS. EVERY NEW STORE MUST HAVE LOBBY FRAMED ART AND ONE PAN ART PACKAGE.
L7		CAUTION DELIVERY EXPERTS' DOOR VINYL	PC273217	USED IF GLASS DOOR SEPARATES LOBBY FROM PRODUCTION AREA
L8		TRACK IT! DIMENSIONAL RIBBON	PC273215	
L9		FREE WIFI SPOT	PC273216	NEW STORE LAYOUT ONLY - NOT RETROFIT
L10		HAND TOSSED FRESH DOUGH WALL VINYL	PC273224	
L11		100% OF FRANCHISEES' WALL VINYL	PC283253	
L12		PIZZA PROVERB - CHALK WALL VINYL	PC273208	5'-1" AFF TO BOTTOM OF BRACKET
L13	1	MANAGERS SPECIAL - CHALK WALL VINYL	PC283209	4'-6" AFF TO BOTTOM OF BRACKET
L14		TELL US WHAT YOU THINK - CHALK WALL VINYL	PC273252	CHALK WALL
L15	1	2 CHALK TRAY	PC273025	2'-10" AFF ON CHALK WALL
L16		4 CHALK TRAY	PC273027	2'10" AFF ON CHALK WALL
L17	1	FRAMED PHOTO COLLAGE (SET OF 4)	PC273256	EVERY NEW STORE MUST HAVE LOBBY FRAMED ART AND ONE PAN ART PACKAGE. - BOTTOM SHOULD BE 5'-6" FROM FLOOR
L18		WW/REWARD/MCB 20" X 24" RED 3PC WALL PRINTS	PC273420	
L19		ONLINE/LOGO/PAN 20" X 24" RED 3PC WALL PRINTS	PC273421	
L20		LOGO 30" X 36" RED WALL PRINT	PC273412	
L21		MARBLED COOKIE BROWNIE 30" X 36" RED WALL PRINT	PC273413	
L22		EASY ORDER 30" X 36" RED WALL PRINT	PC273414	
L23		MEET DOM 30" X 36" RED WALL PRINT	PC273415	
L24		WHY WAIT? 30" X 36" RED WALL PRINT	PC273416	
L25		ORDER ONLINE 30" X 36" RED WALL PRINT	PC273417	
L26		HANDMADE PAN PIZZA 30" X 36" RED WALL PRINT	PC273418	
L27		REWARDS 30" X 36" RED WALL PRINT	PC273419	
L28	1	REWARDS 30" X 36" WALL PRINT	-	-
GRAPHICS: CUSTOMER VIEWING LEDGE				
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
V3		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
GRAPHICS: POS				
P1	1	PICK UP SOFFIT DIMENSIONAL LETTERS	PC273232	MUST USE
P2	1	ORDER' SOFFIT DIMENSIONAL LETTERS	PC273234	MUST USE
P3		PICK UP POS VINYL	PC273231	USE ON COUNTERS IF NO SOFFIT AVAILABLE
P4	1	PROMO CHALKBOARD FOR POS COUNTER	PC273237	
GRAPHICS: RESTROOM				
R1		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
GRAPHICS: MERCHANDISING				
M2		COUNTER MERCHANDISER DISPLAY	PC273249	PRICE STRIPS SOLD SEPARATELY
M3		HOT HOLD MERCHANDISER DISPLAY	PC273903	PRICE STRIPS SOLD SEPARATELY

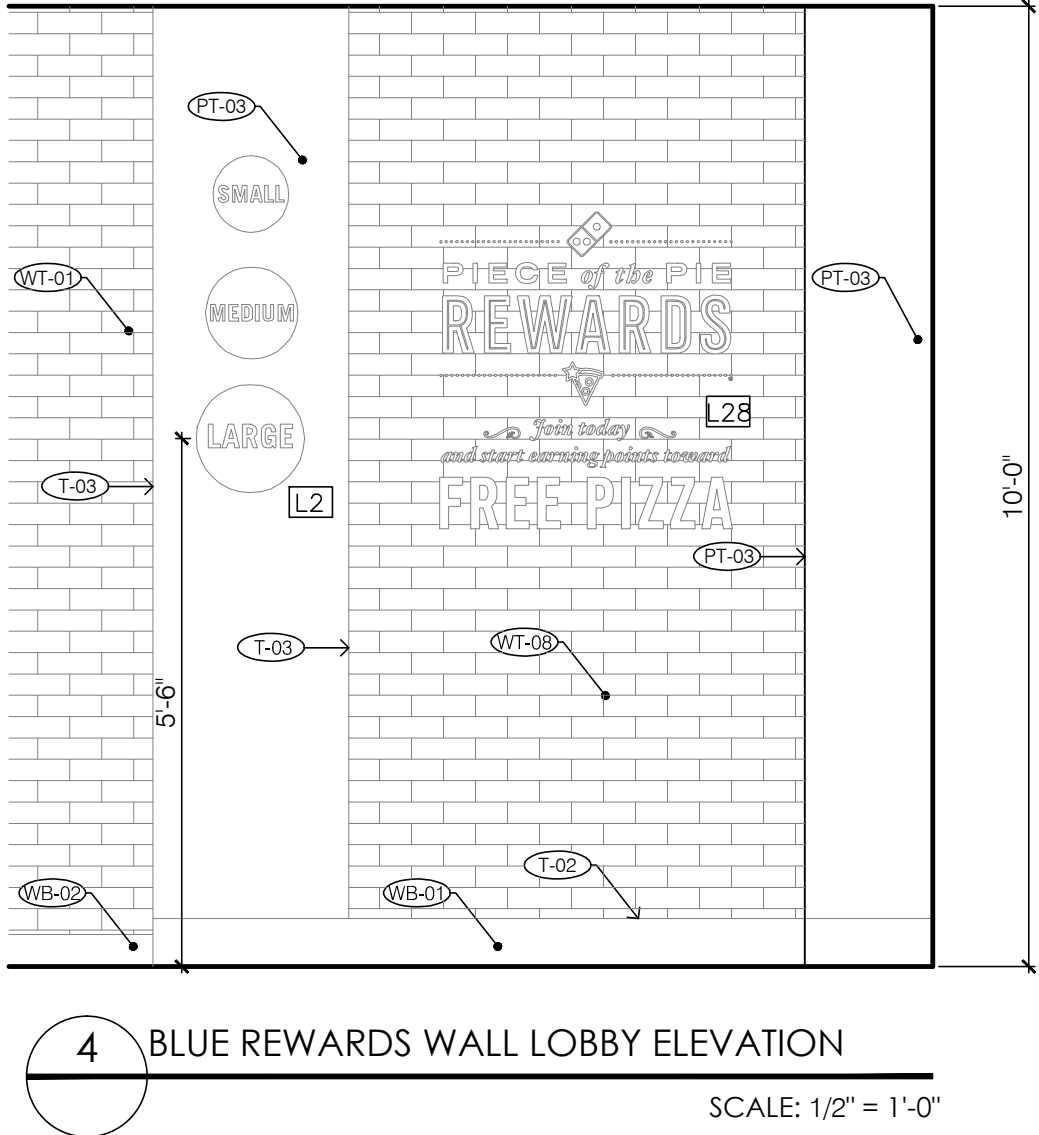
NOTE: ONLY ITEMS WITH QUANTITY LISTED ARE APPLICABLE TO THIS PROJECT.



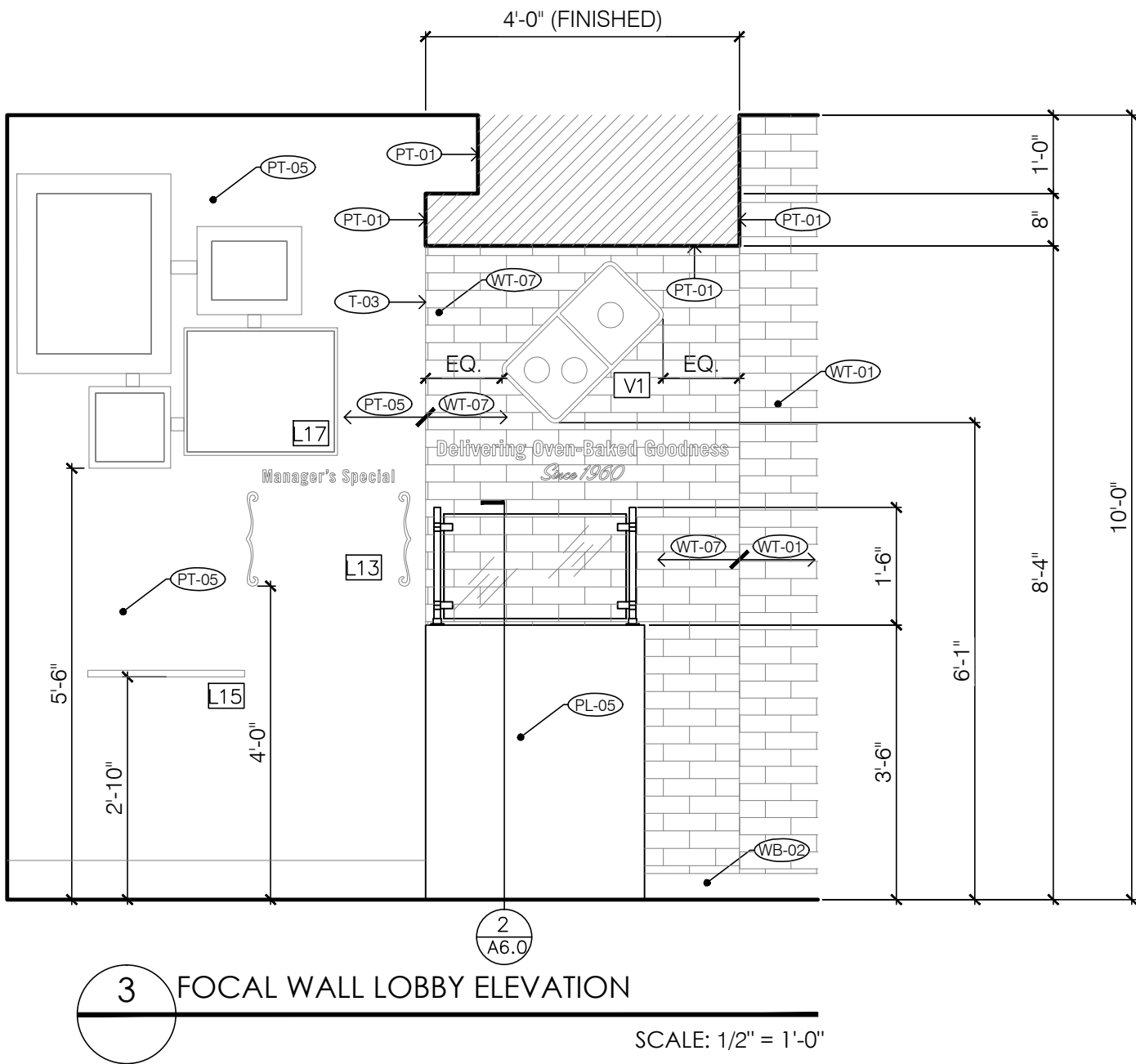
2 INTERIOR STOREFRONT LOBBY ELEVATION
SCALE: 1/2" = 1'-0"



1 FRONT COUNTER LOBBY ELEVATION
SCALE: 1/2" = 1'-0"



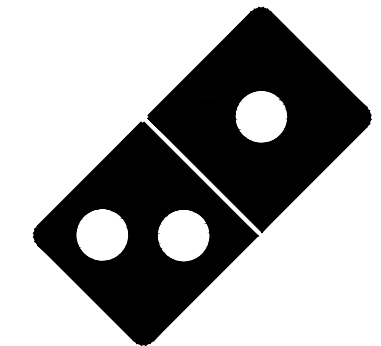
4 BLUE REWARDS WALL LOBBY ELEVATION
SCALE: 1/2" = 1'-0"



3 FOCAL WALL LOBBY ELEVATION
SCALE: 1/2" = 1'-0"



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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 Management LLC dba Domino's
3901 Blue Ridge Cutoff
Kansas City, MO 64133

ISSUED FOR PERMIT:
04.22.2021

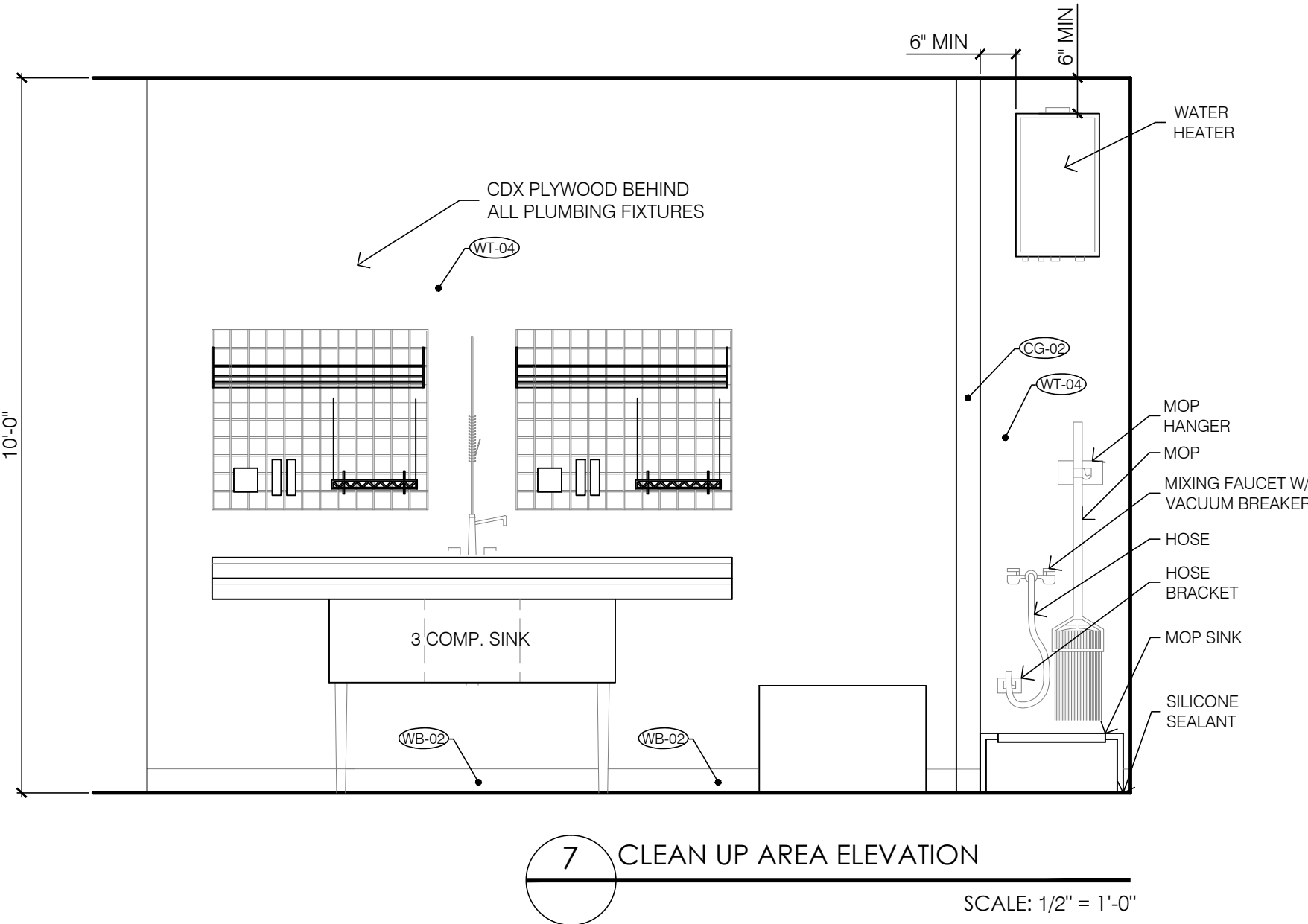
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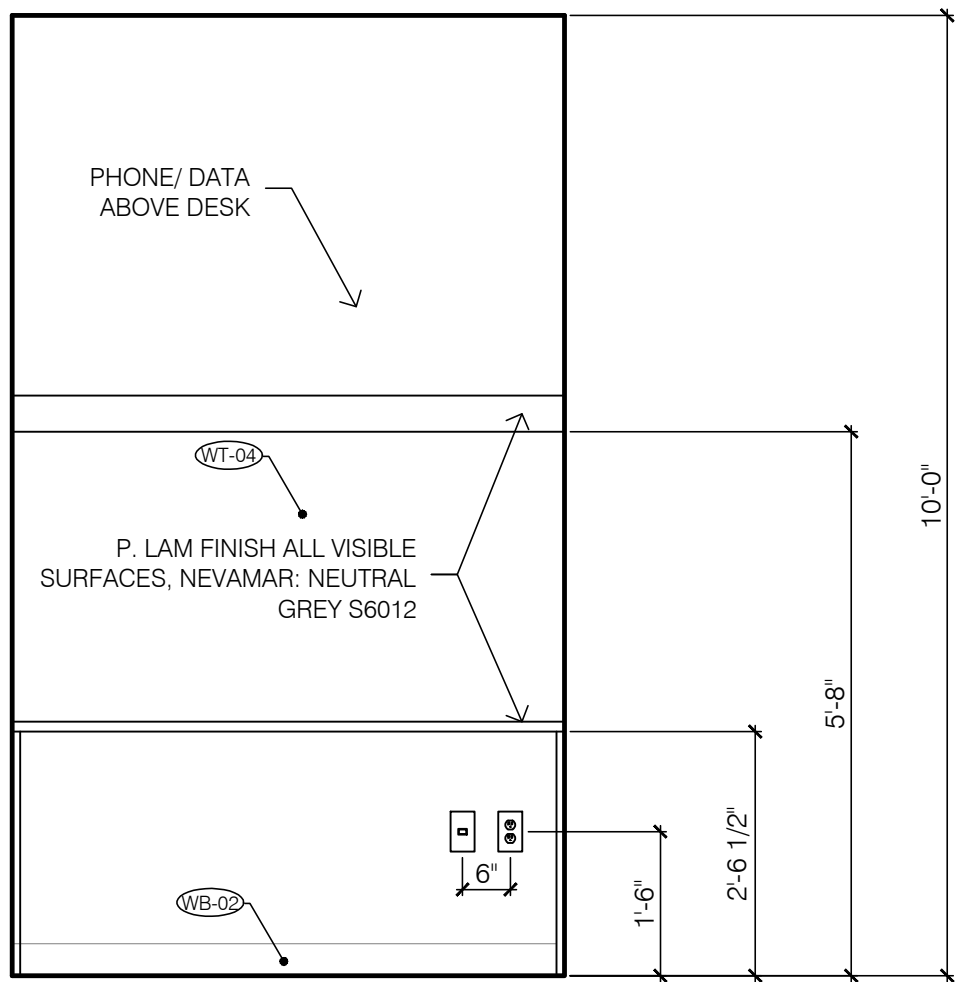
INTERIOR ELEVATIONS/
ART PACKAGE
SCHEDULE

SHEET NUMBER:

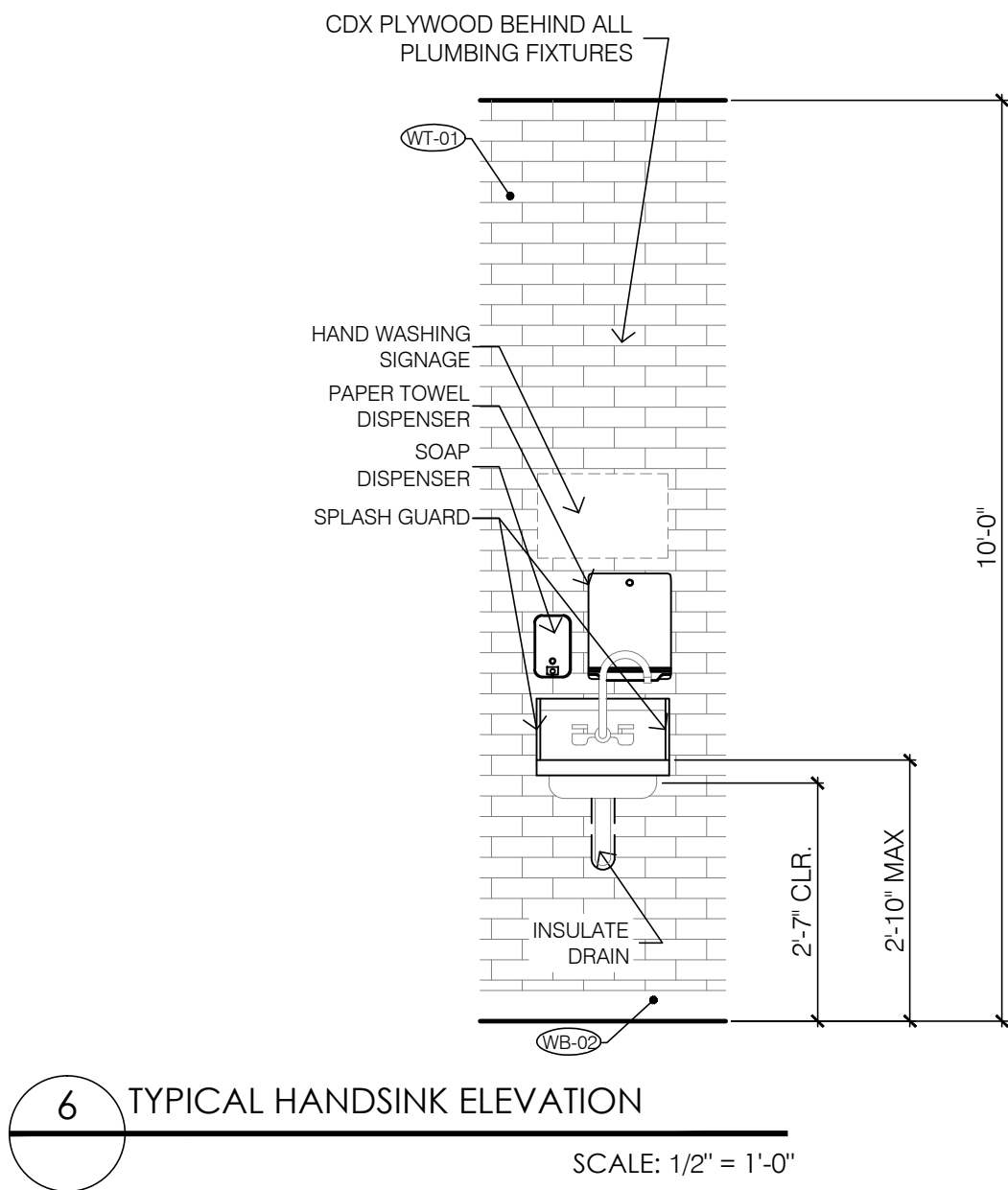
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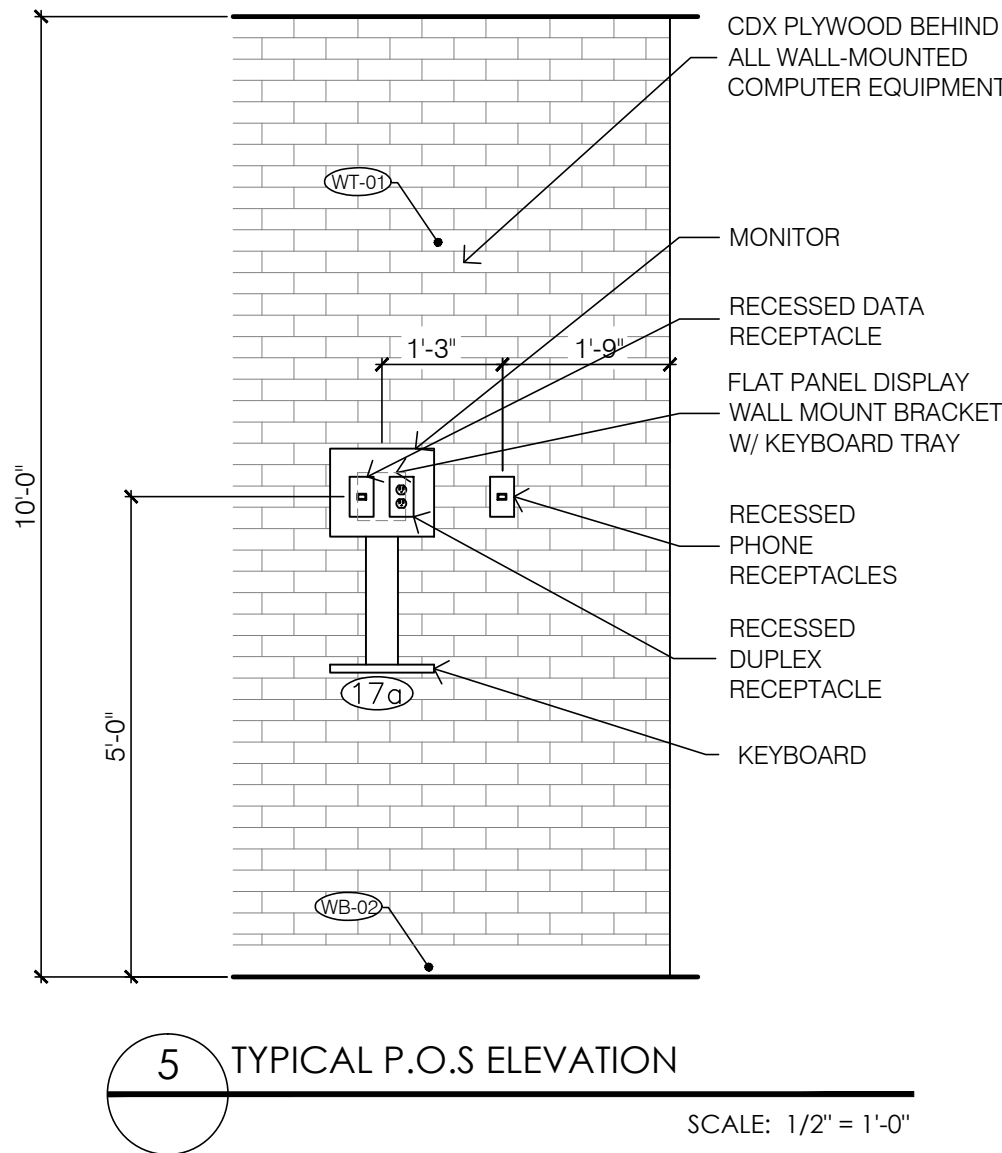
7 CLEAN UP AREA ELEVATION
SCALE: 1/2" = 1'-0"



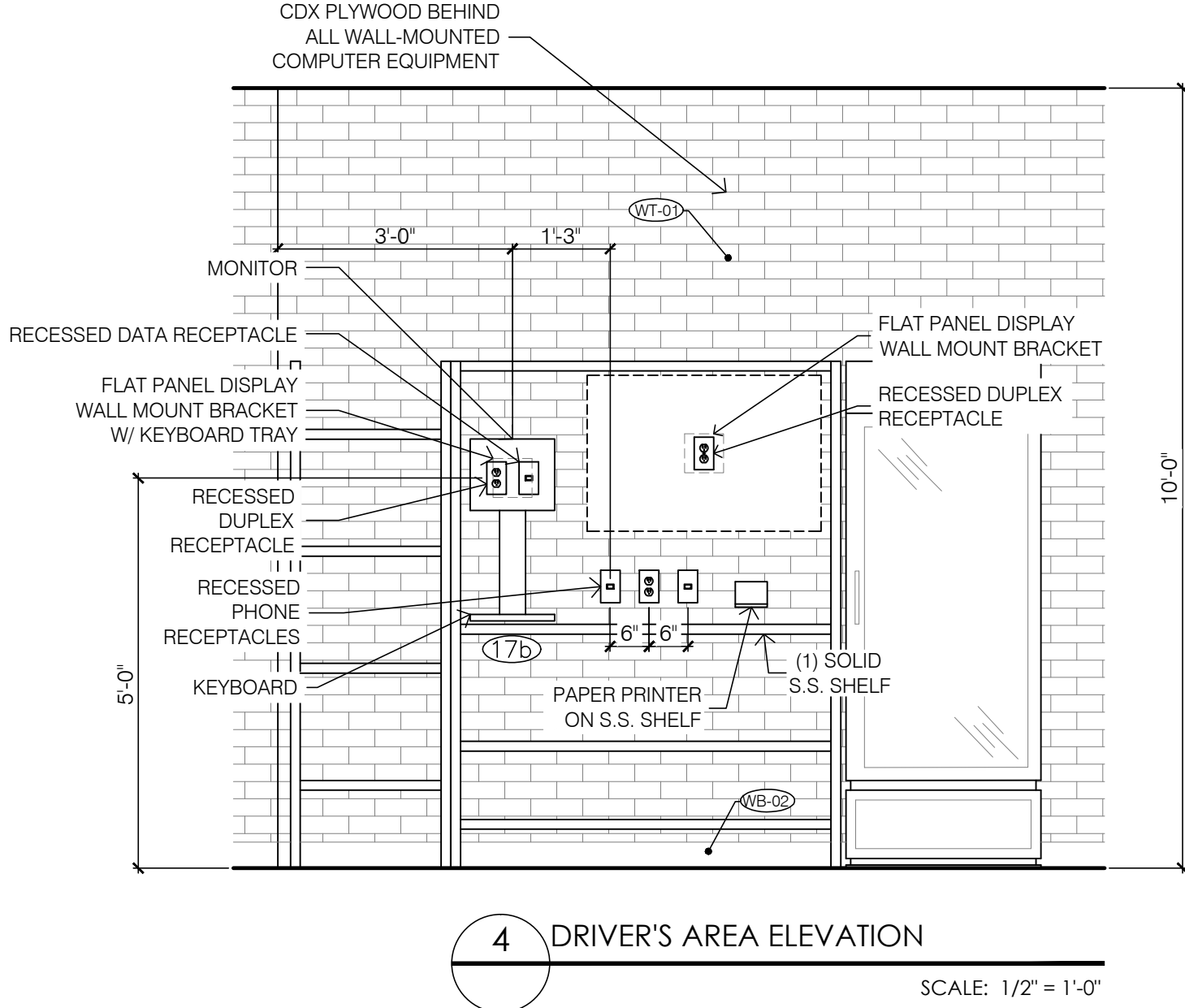
3 MANAGER'S DESK ELEVATION
SCALE: 1/2" = 1'-0"



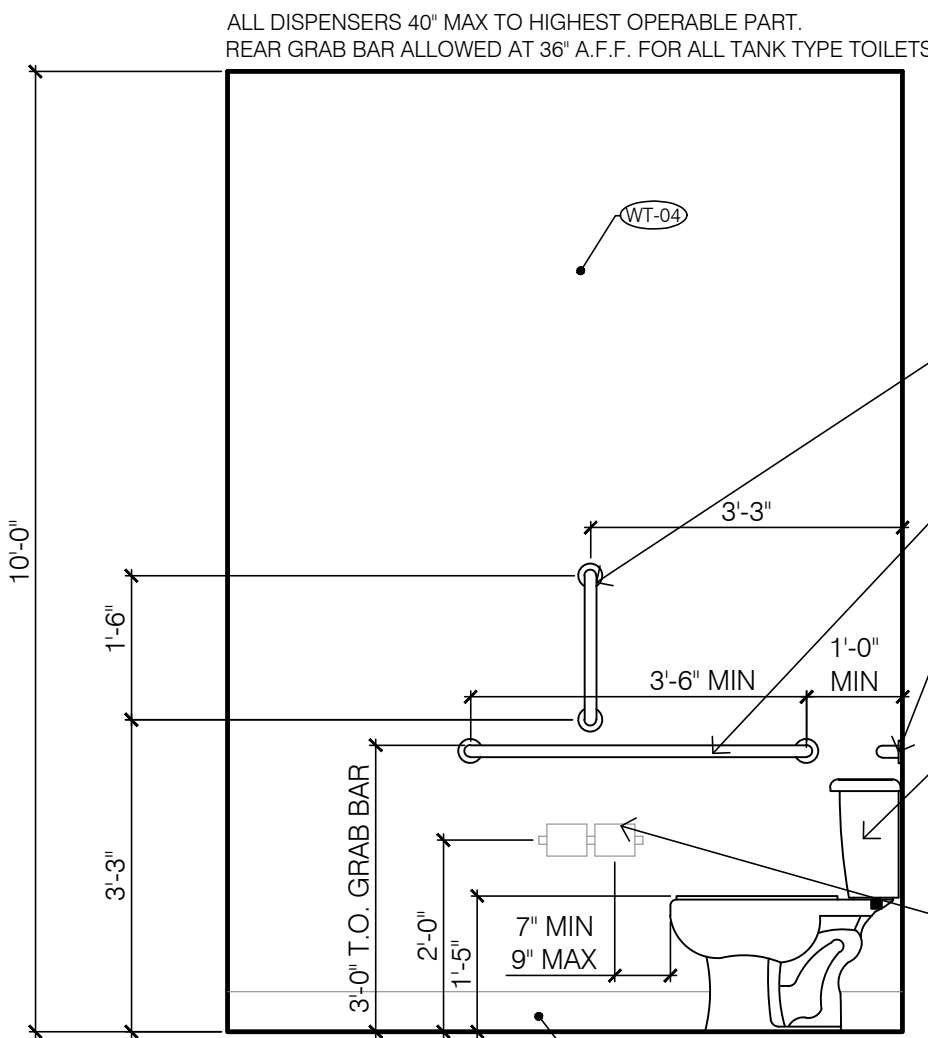
6 TYPICAL HANDSINK ELEVATION
SCALE: 1/2" = 1'-0"



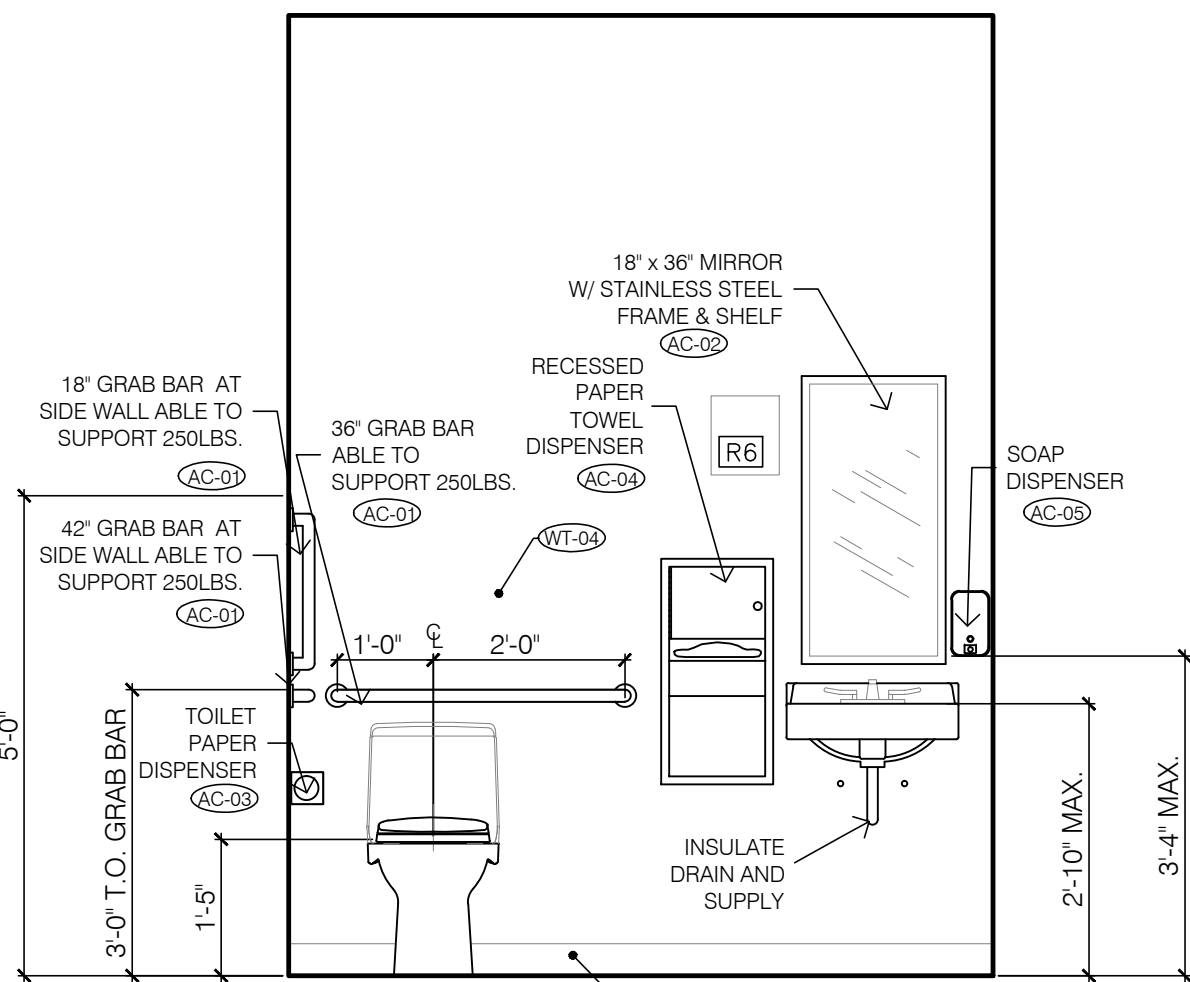
5 TYPICAL P.O.S ELEVATION
SCALE: 1/2" = 1'-0"



4 DRIVER'S AREA ELEVATION
SCALE: 1/2" = 1'-0"



2 RESTROOM ELEVATION
SCALE: 1/2" = 1'-0"



1 RESTROOM ELEVATION
SCALE: 1/2" = 1'-0"

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
AC-07	ACCESSIBLE TOILET - LH	ZURN	Z5550	WHITE	----	LEFT HAND, FLOOR MOUNT, 34" A.F.F.
AC-07	ACCESSIBLE TOILET - RH	ZURN	Z5550	WHITE	----	RIGHT HAND, FLOOR MOUNT, 34" A.F.F.
NOTE: FLUSH CONTROLS SHALL BE LOCATED ON THE OPEN SIDE OF WATER CLOSET						
AC-08	ACCESSIBLE SINK	ZURN	Z5040	WHITE	----	WALL MOUNT, MEETS ADA AND ANSI A117.1 REQUIREMENTS WITH REAR AND 34" A.F.F.

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ISSUED FOR PERMIT:
04.22.2021

REV: DATE: DESCRIPTION:

SHEET NAME:

INTERIOR ELEVATIONS

SHEET NUMBER:

A5.0



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04.22.21
STATE OF MISSOURI
JASON D. GNICH
NUMBER A-2011038336
EXP. 12.31.21
ARCHITECT

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
07/16/2021

- THE ELECTRICAL WORK SHALL INCLUDE FURNISHING ALL LABOR, SUPERVISION, MATERIALS, EQUIPMENT, TOOLS, TRANSPORTATION, INSURANCE AND PERFORM OPERATIONS REQUIRED TO CONSTRUCT AND INSTALL COMPLETE AND OPERATIVE ELECTRICAL SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS AND DRAWINGS.
- ALL MATERIAL FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE LATEST ACTIVE OR ADOPTED EDITIONS OF THE NATIONAL ELECTRIC CODE, STATE OR LOCAL ELECTRICAL CODES, AND THE REQUIREMENTS OF THE UTILITY COMPANIES. WHERE CONFLICTS OCCUR, THE MORE STRINGENT OR THE CODE ENFORCED BY THE AUTHORITY HAVING JURISDICTION SHALL APPLY.
- WORK INTENDED, BUT HAVING MINOR DETAILS OBVIOUSLY OMITTED OR NOT SHOWN SHALL BE FURNISHED AND INSTALLED COMPLETE TO PERFORM REQUIRED FUNCTION.
- ELECTRICAL PLANS ARE DIAGRAMMATICAL. DO NOT SCALE. COORDINATE ACTUAL LOCATIONS OF ALL DEVICES AND ROUTING OF ALL RACEWAYS WITH ARCHITECT AND ALL TRADES PRIOR TO ANY ROUGH-IN.
- ALL MATERIALS SHALL BE NEW AND IN GOOD CONDITION. THE MATERIAL SHALL BE THE PRODUCT OF SUBSTANTIALLY ESTABLISHED AND RECOGNIZED MANUFACTURER'S
- THIS CONTRACTOR SHALL COORDINATE HIS WORK SO THAT IT DOES NOT INTERFERE WITH THE WORK OF ALL OTHER TRADES. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO SEE THAT THIS WORK IS INSTALLED IN A TIMELY MANNER. PLAN AND INSTALL ALL ELECTRICAL WORK IN SUCH A MANNER AS TO PREVENT OBSTRUCTIONS, AND KEEP OPENINGS AND PASSAGEWAYS CLEAR. CONSULT ALL CONTRACT DRAWINGS FOR CONDITIONS AFFECTING THIS WORK AND VERIFY SPACES IN WHICH WORK WILL BE INSTALLED. NOTIFY ARCHITECT IMMEDIATELY OF POSSIBLE CONFLICTS. WHERE INTERFERENCE WITH STRUCTURAL, MECHANICAL OR OTHER FEATURES EXIST, OR WHERE JOB CONDITIONS REQUIRE REASONABLE CHANGES IN LOCATIONS AND ARRANGEMENT OF INDICATED EQUIPMENT, CONDUIT, OUTLETS OR WIRING, CONTRACTOR SHALL MAKE SUCH CHANGES WITHOUT EXTRA COST TO OWNER OR ARCHITECT.
- THIS CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS AND VISIT THE SITE PRIOR TO SUBMITTING HIS BID. HE SHALL INCLUDE ALL WORK IN HIS BID DISCERNIBLE FROM REVIEW OF DOCUMENTS AND SITE VISIT. NO SUBSEQUENT ALLOWANCES WILL BE MADE FOR LACK OF REASONABLE REVIEW OF DOCUMENTS AND SITE VISIT.
- THIS CONTRACTOR SHALL SUBMIT FOR APPROVAL EIGHT (8) SETS OF SHOP DRAWINGS ON THE FOLLOWING: PANELBOARDS, DISCONNECT SWITCHES, LIGHTING FIXTURES, LAMPS, DEVICES AND COVERPLATES, FIRE ALARM EQUIPMENT AND ANY OTHER ITEMS REQUESTED BY THE ARCHITECT.
- THIS CONTRACTOR SHALL LEAVE EACH ENTIRE ELECTRICAL SYSTEM IN PROPER WORKING ORDER AND SHALL REPLACE ANY WORK OR MATERIAL PROVIDED BY HIM UNDER THIS CONTRACT WHICH DEVELOPS DEFECTS WITHIN (1) YEAR OF FINAL ACCEPTANCE BY OWNER.
- THIS CONTRACTOR SHALL PROVIDE, MAINTAIN AND REMOVE AFTER CONSTRUCTION IS COMPLETE, AND ADEQUATE TEMPORARY POWER AND LIGHTING SYSTEM.
- PANELBOARDS SHALL BE OF THE SAME MANUFACTURER, (SQUARE "D", CUTLER-HAMMER, GE OR ITE/SEIMENS). PROVIDE SCREW-ON ENGRAVED NAMEPLATES FOR ALL DISTRIBUTION EQUIPMENT.
- THIS CONTRACTOR SHALL PROVIDE NEW, TYPED, PANELBOARD DIRECTORIES FOR ALL NEW AND/OR EXISTING PANELS WITHIN THE SCOPE OF THIS PROJECT. THE DIRECTORIES SHALL INDICATE THE LOAD TYPE AND AREA SERVED. PROVIDE ALL FIELD VERIFICATION WORK AS NECESSARY.
- LIGHTING FIXTURES SHALL BE FURNISHED COMPLETE WITH LAMPS, HANGERS AND INCIDENTALS. FIXTURES SHALL BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE ABOVE. ALL LIGHTING FIXTURES, LAMPS AND LENSES SHALL BE THOROUGHLY CLEANED PRIOR TO FINAL ACCEPTANCE.
- WIRING DEVICES SHALL BE SPECIFICATION GRADE WITH HIGH IMPACT NYLON COVERPLATES. COLOR OF DEVICES AND COVERPLATES AS DIRECTED BY THE ARCHITECT. ACCEPTABLE MANUFACTURER'S ARE HUBBELL, P&S, GENERAL ELECTRIC AND COOPER INDUSTRIES.
- WIRE SHALL BE "THIN" OR "XHHW" COPPER, 90°C, 600 VOLTS. SOLID SIZE 10 AND SMALLER, STRANDED SIZE 8 AND LARGER. ALL FEEDERS AND BRANCH CIRCUITS SHALL HAVE A GREEN CODE SIZE EQUIPMENT GROUND. MINIMUM SIZE WIRE #12 AWG, UNLESS OTHERWISE NOTED.
- ALL INTERIOR WIRING SHALL BE IN EMT WITH STEEL, SET SCREW FITTINGS. EMT SHALL BE USED IN ALL BLOCK (CMU) WALLS. TYPE MC (METAL-CLAD) CABLE MAY BE USED ON THIS PROJECT SUBJECT TO MEETING ALL OF THE FOLLOWING CONDITIONS:
A. THE LOCAL AUTHORITIES HAVING JURISDICTION MUST ALLOW THE USE OF MC CABLE.
B. THE ARCHITECT AND OWNER MUST APPROVE OF THE USE OF MC CABLE.
C. THE CABLE STRUCTURE AND INSTALLATION ARE IN ACCORDANCE WITH UL, NEC AND LOCAL CODE REQUIREMENTS.
D. THE MC CABLE CONDUCTOR SIZE MEETS THE REQUIREMENTS OF THE CONSTRUCTION DRAWINGS AND NEC. THE MINIMUM WIRE SIZE SHALL BE #12 AWG, THIN OR THWN.
E. THE MC CABLE MUST CONTAIN AN NEC SIZED GROUND CONDUCTOR FOR ALL CIRCUITS.
F. RECORD DRAWINGS (AS-BUILT DRAWINGS) SHALL REFLECT THE USE AND ROUTING LOCATIONS OF THE MC CABLE.
- THIS CONTRACTOR SHALL COORDINATE AN MAKE FINAL CONNECTIONS FOR MECHANICAL EQUIPMENT. SIZE ALL FUSES/CIRCUIT BREAKERS PROTECTING MECHANICAL EQUIPMENT PER EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
- THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL ELECTRICAL WIRING, RACEWAYS, OUTLET AND JUNCTION BOXES, MOTOR STARTERS, DISCONNECT AND CONTROLS FOR EQUIPMENT FURNISHED UNDER OTHER SECTIONS, UNLESS NOTED OTHERWISE. VERIFY EQUIPMENT REQUIREMENTS WITH EQUIPMENT MANUFACTURER PRIOR TO BID.
- THIS CONTRACTOR SHALL NOT INTERRUPT OR REMOVE ANY EXISTING CIRCUITS OR EQUIPMENT UNLESS NOTED OTHERWISE ON PLANS OR DAMAGED OR DISRUPTED CIRCUITS OR EQUIPMENT SHALL BE RESTORED TO LIKE NEW CONDITION AT NO ADDITIONAL COST TO OWNER OR ARCHITECT.
- ALL PENETRATIONS OF FIRE-RESISTIVE FLOORS OR SHAFT WALLS SHALL BE PROTECTED BY MATERIALS AND INSTALLATION THAT CONFORM TO UNDERWRITER'S LABORATORIES LISTINGS FOR "THROUGH-PENETRATION FIRE STOP SYSTEMS". THE CONTRACTOR SHALL SUBMIT TO THE ARCHITECT, SHOP DRAWING DETAILS, FURNISHED BY THE MANUFACTURER OF THE FIRE STOP MATERIAL, WHICH SHOW COMPLETE CONFORMANCE WITH THE UL. THE DRAWINGS SHALL BE SPECIFIC FOR EACH PENETRATIONS, WITH ALL VARIABLES DEFINED.
- THE FINAL DETERMINATION OF EXIT LIGHTING LOCATIONS AND EGRESS PATHWAYS SHALL BE THE RESPONSIBILITY OF THE ARCHITECT. THE CONTRACTOR SHALL CONFIRM AND VERIFY THE LOCATIONS OF ALL EXIT AND EMERGENCY LIGHTING WITH THE ARCHITECT PRIOR TO ANY INSTALLATION.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE SYSTEM FURNITURE JUNCTION BOX LOCATIONS WITH THE SUPPLIER AND MAKE ALL FINAL FLEXIBLE CONNECTIONS TO SAME.

ABBREVIATIONS DEVICE MTG. HEIGHTS

AFF	ABOVE FINISHED FLOOR	ALL HEIGHTS ARE ABOVE FINISHED FLOOR AND TO THE CENTERLINE OF THE DEVICE U.N.O.
AFO	ABOVE FINISHED GRADE	
ATS	AUTOMATIC TRANSFER SWITCH	
EDF	ELECTRIC DRINKING FOUNTAIN	
EF	EXHAUST FAN	
GF	GROUND FAULT INTERRUPTER	RECEPTACLES +18"
GRD	GROUNDING/BONDING	TELEPHONE OUTLETS +18"
NL	NIGHT LIGHT	DATA OUTLETS +18"
MCC	MOTOR CONTROL CENTER	
NIC	NOT IN CONTRACT	ABOVE COUNTER RECEPTACLES, TELEPHONE AND DATA OUTLETS VERIFY WITH ARCHITECT PRIOR TO ROUGH IN.
PNL	PANEL	
SES	SERVICE ENTRANCE SECTION	
SWBD	SWITCHBOARD	SWITCHES +48"
UNO	UNLESS NOTED OTHERWISE	DIMMERS +48"
WP	WEATHERPROOF	TIME SWITCHES +48"
A/C	AIR CONDITIONING UNIT	RECEPTACLE(S) LOCATED AT TMB +48"
E/C	EVAPORATIVE COOLER	
FACP	FIRE ALARM CONTROL PANEL	FA MANUAL PULL STATION +48"
FBO	FURNISHED BY OTHERS	FA VISUAL DEVICES +80"
		FA AUDIO DEVICES +80"

PANELBOARD SYMBOLS SCHEDULE

- INDICATES EXISTING LOAD AND BREAKER TO REMAIN, NO REVISION. EXISTING LOADS MAY HAVE BEEN ESTIMATED.
- ① INDICATES CIRCUIT BREAKER TO BE SUITABLE AND U.L. LISTED FOR "SWITCHING DUTY"
- INDICATES NEW LOAD HAS BEEN ADDED TO EXISTING BREAKER.
- INDICATES EXISTING LOAD HAS BEEN REMOVED, BREAKER TO BECOME SPARE.
- INDICATES NEW LOAD AND NEW BREAKER ADDED TO EXISTING BUSSED SPACE.
- INDICATES EXISTING LOAD AND BREAKER HAS BEEN REMOVED AND REPLACED WITH NEW BREAKER AND NEW LOAD.
- ◆ INDICATES PROVIDE LOCK-CLOSED DEVICE ON THE BREAKER.
- ◇ INDICATES PROVIDE LOCK-OPEN DEVICE ON THE BREAKER.
- ▽ INDICATES ISOLATED GROUNDING CIRCUIT.
- ◇ INDICATES CIRCUIT THRU LIGHTING CONTACTOR. SEE WIRING DIAGRAM.
- ▲ INDICATES CIRCUIT THRU PHOTO ELECTRIC CELL. PROVIDE 20A. PHOTO CELL AS REQUIRED.
- ◆ INDICATES CIRCUIT THRU TIME CLOCK. PROVIDE A TIME CLOCK AS REQUIRED.
- N INDICATES NON-CONTINUOUS LOAD ● 100%
- C INDICATES CONTINUOUS LOAD ● 125%
- M INDICATES MOTOR LOAD ● 100%
- LM INDICATES LARGEST MOTOR LOAD ● 125%
- SR INDICATES SPARE CIRCUIT BREAKER
- SP INDICATES BUSSED SPACE
- GF INDICATES GFCI CIRCUIT BREAKER

ELECTRICAL SYMBOLS

- NOTE: SOME SYMBOLS IN THIS LIST MAY NOT BE USED FOR THIS PROJECT.
- CEILING MOUNTED LIGHT FIXTURE. LOWER CASE LETTER, IF USED, INDICATES SWITCHING. L# DESIGNATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR DETAILS.
- WALL MOUNTED LIGHT FIXTURE. LOWER CASE LETTER, IF USED, INDICATES SWITCHING. L# DESIGNATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR DETAILS.
- WALL WASHER LIGHT FIXTURE. ARROW INDICATES GENERAL DIRECTION OF WASH. LOWER CASE LETTER, IF USED, INDICATES SWITCHING. L# DESIGNATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR DETAILS.
- FLOURESCENT LIGHT FIXTURE. LOWER CASE LETTER, IF USED, INDICATES SWITCHING. L# DESIGNATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR DETAILS.
- TRACK LIGHTING SYSTEM. TRIANGLES DENOTE TRACK LIGHT FIXTURES. LOWER CASE LETTER, IF USED, INDICATES SWITCHING. L# DESIGNATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR DETAILS.
- POLE MOUNTED LIGHT FIXTURE. L# DESIGNATES TYPE. MULTIPLE LUMINARIES AS SHOWN ON PLANS. SEE LIGHT FIXTURE SCHEDULE FOR DETAIL. SEE POLE MOUNTING DETAIL FOR POLE INFORMATION.
- SPOT OR FLOOD LIGHT. L# DESIGNATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR DETAILS.
- FLOURESCENT LIGHT FIXTURE WITH (2) LAMPS SERVED BY A FULL LIGHT OUTPUT EMERGENCY BALLAST. "NL" INDICATES FIXTURE SHALL BE CONNECTED TO UNSWITCHED CIRCUIT. LOWER CASE LETTER, IF USED, INDICATES SWITCHING. L# DESIGNATES TYPE. SEE LIGHT FIXTURE SCHEDULE FOR DETAILS.
- EXT LIGHT FIXTURE. MOUNTING NOT SHOWN ON DRAWINGS. SHADED PORTION INDICATES FACE OF SIGN. PROVIDE ARROWS ON FACE(S) OF FIXTURE AS SHOWN ON PLANS. SEE FIXTURE SCHEDULE FOR DETAILS.
- JUNCTION BOX IN ACCESSIBLE LOCATION.
- FLEXIBLE CONDUIT EQUIPMENT CONNECTION. PROVIDE GROUND BUSHING AND GROUND CONDUCTOR IN ACCORDANCE WITH THE NEC. PROVIDE WEATHERPROOF FLEXIBLE CONDUIT FOR EQUIPMENT LOCATED OUTSIDE.
- TOGGLE SWITCH. MOUNT AT 48" ABOVE FINISHED FLOOR U.N.O. 20 A. 120 V. OR 277 V. AS REQUIRED.
- TWO POLE TOGGLE SWITCH. MOUNT AT 48" ABOVE FINISHED FLOOR U.N.O. 20 A. 120 V. OR 277 V. AS REQUIRED.
- THREE WAY TOGGLE SWTCH. MOUNT AT 48" ABOVE FINISHED FLOOR U.N.O. 20 A. 120 V. OR 277 V. AS REQUIRED.
- FOUR WAY TOGGLE SWITCH. MOUNT AT 48" ABOVE FINISHED FLOOR U.N.O.
- MOTOR RATED SWITCH, VOLTAGE AND PHASE RATED WITH THERMAL OVERLOAD PROTECTION. NEMA 3R WHEN LOCATED OUTSIDE.
- TIMECLOCK. 3-POLE SINGLE THROUGH. 24-1HR ASTRONOMIC DIAL WITH DAY OMITTING DEVICE. RESERVE POWER. AND NEMA 1 ENCLOSURE FOR INDOORS - NEMA 3R ENCLOSURE WHEN LOCATED OUTSIDE. EQUAL TO TORK #7300-ZL U.N.O.
- PHOTOCCELL SWITCH. MOUNT ABOVE ROOF AND AIM NORTH. EQUAL TO TORK #2100.
- DIMMER SWITCH. MOUNT AT 48" ABOVE FINISHED FLOOR U.N.O. SUPERSCRIPT NUMBER INDICATES: 1=1000 WATTS, 2=2000 WATTS, NONE =600 WATTS. DO NOT REMOVE COOLING FINS.
- DUPLEX RECEPTACLE. MOUNT AT 18" ABOVE FINISHED FLOOR U.N.O.
- DUPLEX RECEPTACLE. MOUNT 6" ABOVE SPLASH OF COUNTER TOP. VERIFY EXACT DIMENSIONS WITH ARCHITECT.
- SWITCH RATED DUPLEX RECEPTACLE. TIE STRAP REMOVED FOR "CONSTANT" AND SWITCHED LEG CONTROL WIRING.
- CEILING MOUNTED DUPLEX RECEPTACLE
- QUAD RECEPTACLE. TWO DUPLEX RECEPTACLES WITH ONE DEVICE PLATE. MOUNT AT 18" ABOVE FINISHED FLOOR U.N.O.
- QUAD RECEPTACLE. TWO DUPLEX RECEPTACLES WITH ONE DEVICE PLATE. MOUNT AT 6" ABOVE SPLASH OF COUNTER TOP. VERIFY EXACT DIMENSIONS WITH ARCHITECT.
- CIRCUIT BREAKER. AMPERAGE/POLES, AS INDICATED.
- SWITCH WITH FUSES. AMPERAGE/POLES, AND FUSE SIZE AND TYPE AS INDICATED.
- FUSED PULL-OUT SWITCH. AMPERAGE/POLES, AND FUSE SIZE AND TYPE AS INDICATED.
- FUSE. SIZE AND TYPE AS INDICATED. ALL FUSE TYPES NOTED ARE BUSMAN DESIGNATIONS U.N.O.
- TRANSFORMER. DRY TYPE. PAD MOUNT, WITH KVA, PRI. & SEC. VOLTAGE, MIN. IMPEDANCE, AND "K" RATING AS NOTED. 150°C RISE U.N.O. PROVIDE SEPARATELY DERIVED SOURCE GROUNDING PER NEC 250-26. CONDUCTOR SIZE AS NOTED.
- SERVICE ENTRANCE SECTION. SEE ONE-LINE DIAGRAM.
- FLUSH FLOOR OUTLET WITH DEVICE SHOWN. PROVIDE WITH BRASS DEVICE PLATE AND CARPET FLANGE. IN CARPETED AREAS. TELEPHONE AND DATA OUTLETS SHALL HAVE MIN. 1" CU. WITH PULL STRING STUBBED UP INTO ACCESSIBLE CEILING SPACE. PROVIDE CONDUIT BUSHINGS ABOVE CEILING.
- SPECIAL PURPOSE RECEPTACLE WITH NEMA CONFIGURATION NOTED, ie: 6-50, 15-20, ETC.
- MULTI OUTLET ASSEMBLY (MOA). MOUNT AT 6" ABOVE COUNTER SPLASH WHERE LOCATED BEHIND COUNTER, OR AT 12" U.N.O.
- RECEPTACLE SUBSCRIPTS - PROVIDE THE FOLLOWING DEVICE FEATURES WHERE NOTED:
GF GROUND FAULT CIRCUIT INTERRUPTER
IG ISOLATED GROUND. PROVIDE SEPERATE GROUND CONDUCTOR FROM PANELBOARD WITHOUT ANY SPLICE. VERIFY NEMA CONFIGURATION WITH EQUIPMENT TO BE SERVED PRIOR TO ROUGH-IN.
V CORD AND CAP. PROVIDE 6" CORD AND CAP FOR THE EQUIPMENT TO MATCH RECEPTACLE TYPE AND AMPERAGE.
- DATA OUTLET. SLASH LINE INDICATES MOUNTING IS ABOVE COUNTER. PROVIDE 3/4" CU. WITH PULL STRING UP INTO ACCESSIBLE CEILING SPACE U.N.O. PROVIDE CONDUIT BUSHING ABOVE CEILING.
- TELEPHONE OUTLET. MOUNT AT 18" ABOVE FINISH FLOOR U.N.O. SLASH LINE INDICATES MOUNTING IS ABOVE COUNTER. PROVIDE 3/4" CU. WITH PULL STRING UP INTO ACCESSIBLE CEILING SPACE U.N.O. PROVIDE CONDUIT BUSHING ABOVE CEILING. "P" INDICATES PAY PHONE. PROVIDE #6 CU GROUND PER NEC 800-40.
- DATA AND TELEPHONE OUTLETS COMBINED IN ONE BOX. PROVIDE (2) 3/4" CU. WITH PULL STRING UP INTO ACCESSIBLE CEILING SPACE U.N.O. PROVIDE CONDUIT BUSHING ABOVE CEILING.
- SPEAKER. PROVIDE SPEAKER, BACKBOX, AND GRILL. VERIFY MOUNTING TYPE AND LOCATION WITH SPECIFICATIONS AND PLANS.
- 2"x 2"x 3/4" THICK FIRE RATED TELEPHONE MOUNTING BOARD. MOUNT AT 6" BELOW CEILING. PROVIDE #6 SOLID CU GROUND PER NEC 800-40.
- CIRCUITS IN CONCEALED CONDUIT U.N.O. NO DISTINCTION IS MADE FOR UNDERGROUND OR OVERHEAD CONDUITS. (---) INDICATES HOMERUN TO PANELBOARD OR AS NOTED.
- HACHURES INDICATE NUMBER OF PHASE AND NEUTRAL CONDUCTORS, WHERE NO HACHURES ARE SHOWN PROVIDE 2#12 CU. #12 CU BOND IN 1/2" CONDUIT. WHEN HOMERUN CONDUCTORS ARE LARGER THAN #12, PROVIDE INDICATED SIZE FOR ENTIRE LENGTH OF CIRCUIT. BOND AND ISOLATED GROUND CONDUCTORS ARE NOT SHOWN. PROVIDE EQUIPMENT BOND WITH ALL CIRCUITS PER NEC 250-95. PROVIDE ISOLATED GROUND FOR IG RECIPTACLES PER NEC 250-95.
- PANELBOARD. SURFACE OR FLUSH MOUNTED AS NOTED IN PANEL SCHEDULE.
- MOTOR. SIZE AND RATING AS SHOWN. "EF" INDICATES EXHAUST FAN.
- PREWIRED MOTOR CONTROLLER FURNISHED WITH EQUIPMENT.
- MAGNETIC MOTOR STARTER. SIZE, VOLTAGE, PHASE, AND NUMBER OF POLES AS REQUIRED. FURNISHED WITH (1) N.O./N.C. FIELD CONVERTIBLE AUXILIARY CONTACT. SHALL BE SINGLE SPEED NON-REVERSING U.N.O. PROVIDE NEMA 3R WHEN LOCATED OUTSIDE.
- COMBINATION DISCONNECT SWITCH AND MOTOR STARTER WITH ENCLOSURE. SEE DISCONNECT SWITCH AND MAGNETIC MOTOR STARTER SYMBOLS.
- HEAVY DUTY DISCONNECT SWITCH. PROVIDE AS NOTED: AMPERAGE/VOLTAGE/NO. OF POLES/WEATHERPROOF FUSE SIZE AND DESIGNATION. NF = NON-FUSIBLE
- TELEVISION OUTLET. SLASH LINE INDICATES MOUNTING IS ABOVE COUNTER. PROVIDE 3/4" CU. WITH PULL STRING INTO ACCESSIBLE CEILING SPACE U.N.O. PROVIDE CONDUIT BUSHING ABOVE CEILING.

GF	GROUND FAULT CIRCUIT INTERRUPTER
IG	ISOLATED GROUND. PROVIDE SEPERATE GROUND CONDUCTOR FROM PANELBOARD WITHOUT ANY SPLICE. VERIFY NEMA CONFIGURATION WITH EQUIPMENT TO BE SERVED PRIOR TO ROUGH-IN.
V	CORD AND CAP. PROVIDE 6" CORD AND CAP FOR THE EQUIPMENT TO MATCH RECEPTACLE TYPE AND AMPERAGE.
RECEPTACLE SUBSCRIPTS - PROVIDE THE FOLLOWING DEVICE FEATURES WHERE NOTED:	
GF	GROUND FAULT CIRCUIT INTERRUPTER
IG	ISOLATED GROUND. PROVIDE SEPERATE GROUND CONDUCTOR FROM PANELBOARD WITHOUT ANY SPLICE. VERIFY NEMA CONFIGURATION WITH EQUIPMENT TO BE SERVED PRIOR TO ROUGH-IN.
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- DATA OUTLET. SLASH LINE INDICATES MOUNTING IS ABOVE COUNTER. PROVIDE 3/4" CU. WITH PULL STRING UP INTO ACCESSIBLE CEILING SPACE U.N.O. PROVIDE CONDUIT BUSHING ABOVE CEILING.
- TELEPHONE OUTLET. MOUNT AT 18" ABOVE FINISH FLOOR U.N.O. SLASH LINE INDICATES MOUNTING IS ABOVE COUNTER. PROVIDE 3/4" CU. WITH PULL STRING UP INTO ACCESSIBLE CEILING SPACE U.N.O. PROVIDE CONDUIT BUSHING ABOVE CEILING. "P" INDICATES PAY PHONE. PROVIDE #6 CU GROUND PER NEC 800-40.
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- HACHURES INDICATE NUMBER OF PHASE AND NEUTRAL CONDUCTORS, WHERE NO HACHURES ARE SHOWN PROVIDE 2#12 CU. #12 CU BOND IN 1/2" CONDUIT. WHEN HOMERUN CONDUCTORS ARE LARGER THAN #12, PROVIDE INDICATED SIZE FOR ENTIRE LENGTH OF CIRCUIT. BOND AND ISOLATED GROUND CONDUCTORS ARE NOT SHOWN. PROVIDE EQUIPMENT BOND WITH ALL CIRCUITS PER NEC 250-95. PROVIDE ISOLATED GROUND FOR IG RECIPTACLES PER NEC 250-95.
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- TELEVISION OUTLET. SLASH LINE INDICATES MOUNTING IS ABOVE COUNTER. PROVIDE 3/4" CU. WITH PULL STRING INTO ACCESSIBLE CEILING SPACE U.N.O. PROVIDE CONDUIT BUSHING ABOVE CEILING.

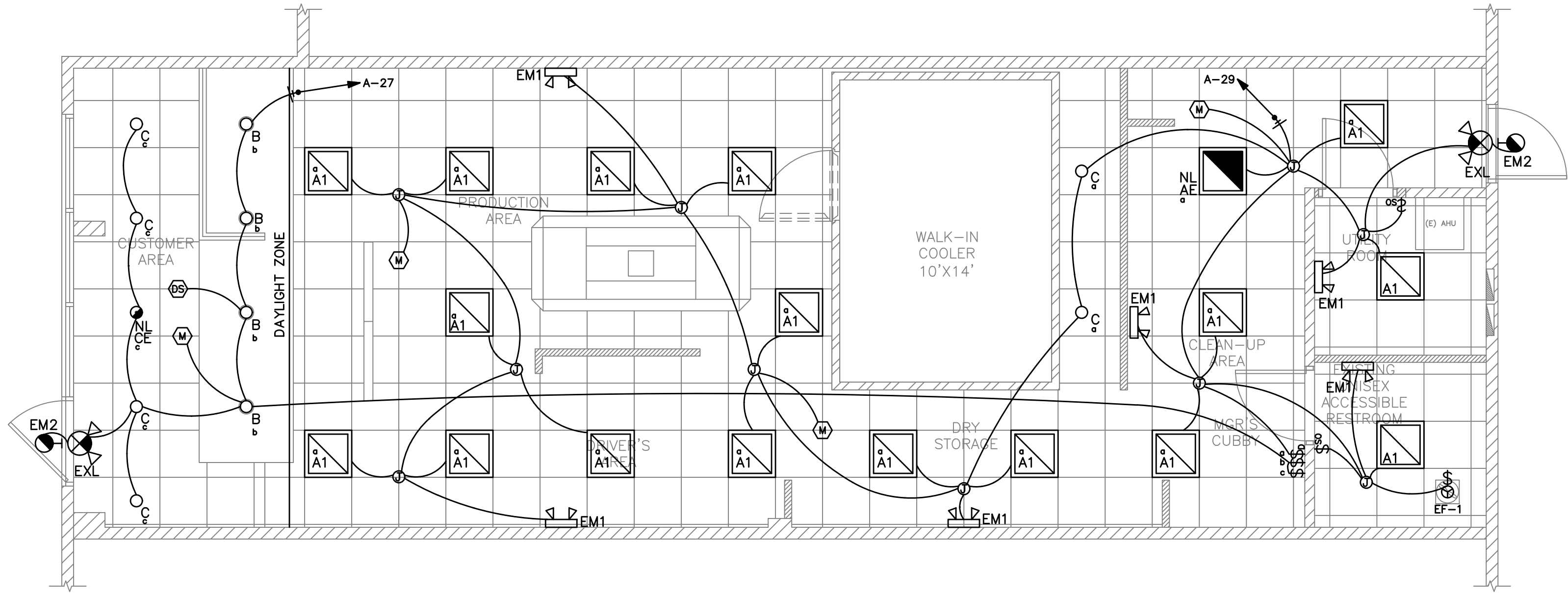
FAULT CURRENT SCHEDULE															
DEVICE	AIC RATING	L-N VOLTS	UTILITY			FED FROM				FEEDER					
			FAULT	X	R	DEVICE	FAULT	X	R	SIZE	X / 1000'	R / 1000'	LENGTH	X	R
SES	42,000	120V	42,000	0.002802	0.0005603					(2)#3/0	0.039	0.023		0	0
A	10,000	120V	5,841	0.0117	0.01688	SES	42,000	0.002802	0.0005603	#3/0	0.042	0.077	212'	0.0089	0.0163
B	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

A															
ROOM MOUNTING FLUSH FED FROM SES				VOLTS 208Y/120V 3P 4W						AIC 10,000					
NOTE EXISTING				BUS AMPS 200						MAIN BKR MLO LUGS STANDARD					
				NEUTRAL 100%											
OKT #	OKT BKR	CIRCUIT DESCRIPTION	KVA LOAD			OKT #	OKT BKR	CIRCUIT DESCRIPTION	KVA LOAD						
			A	B	C				A	B	C				
1	20/1	K24 60" HEAT LAMP GFCI	1.26			2	20/1	BLDG.SIGN.	1.2						
3	20/1	K24 60" HEAT LAMP GFCI		1.26		4	-/1	SPACE		0	0.432				
5	20/1	K24 60" HEAT LAMP GFCI			1.26	6	20/2	AHU-1(E) EXISTING							
7	20/1	MISC. W/H & PUMP	0.6			8		CU-1(E) EXISTING	0.432						
9	20/1	DINING RM REC. GFCI		0.18		10	20/3			1.59	1.59				
11	20/1	SMOKE DETECTOR			0.15	14									
13	20/1	K10 MAKELINE LCP GFCI	1.03			18	30/2	WALK-IN COOLER HEAT TAPE & LIGHTS		0.72					
15	-/1	SPACE		0		16	20/1	K27B WALK-IN COOLER CONDENSING UNIT			1.89				
17	20/1	MISC. SHOW WINDOW LTG.		1.2		18	30/2								
19	30/2	DRYER	2.88			20			1.89						
21	20/1			2.88		22	20/1	K27A EVAP UNIT		0.24					
23	20/1	CLOTHES WASHER GFCI		1.5	2.4	24	20/1	MAKELINE REC. GFCI			0.72				
25	20/1	K20 1- DOOR VISH-COOL GFCI	0.9			26	100/3	PANEL B		7.08					
27	20/1	CUST AREA LIGHTING		0.166		28				7	9.51				
29	20/1	PROD AREA EF-1, LIGHTING			0.908	30									
									TOTAL CONNECTED KVA BY PHASE			18.9	14	19.2	
									TOTAL CONNECTED AMPS BY PHASE			157	117	160	
			CONN. KVA	CALC. KVA					CONN. KVA	CALC. KVA					
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	14.7 (50%+10)		KITCHEN EQUIP			6.97	4.53 (85%)					
KITCHEN			0	0 (100%)		NONCON/DIVERSE			0	0 (N/A)					
						TOTAL KVA			52.1	46.5					
BALANCED THREE PHASE AMPS 129															

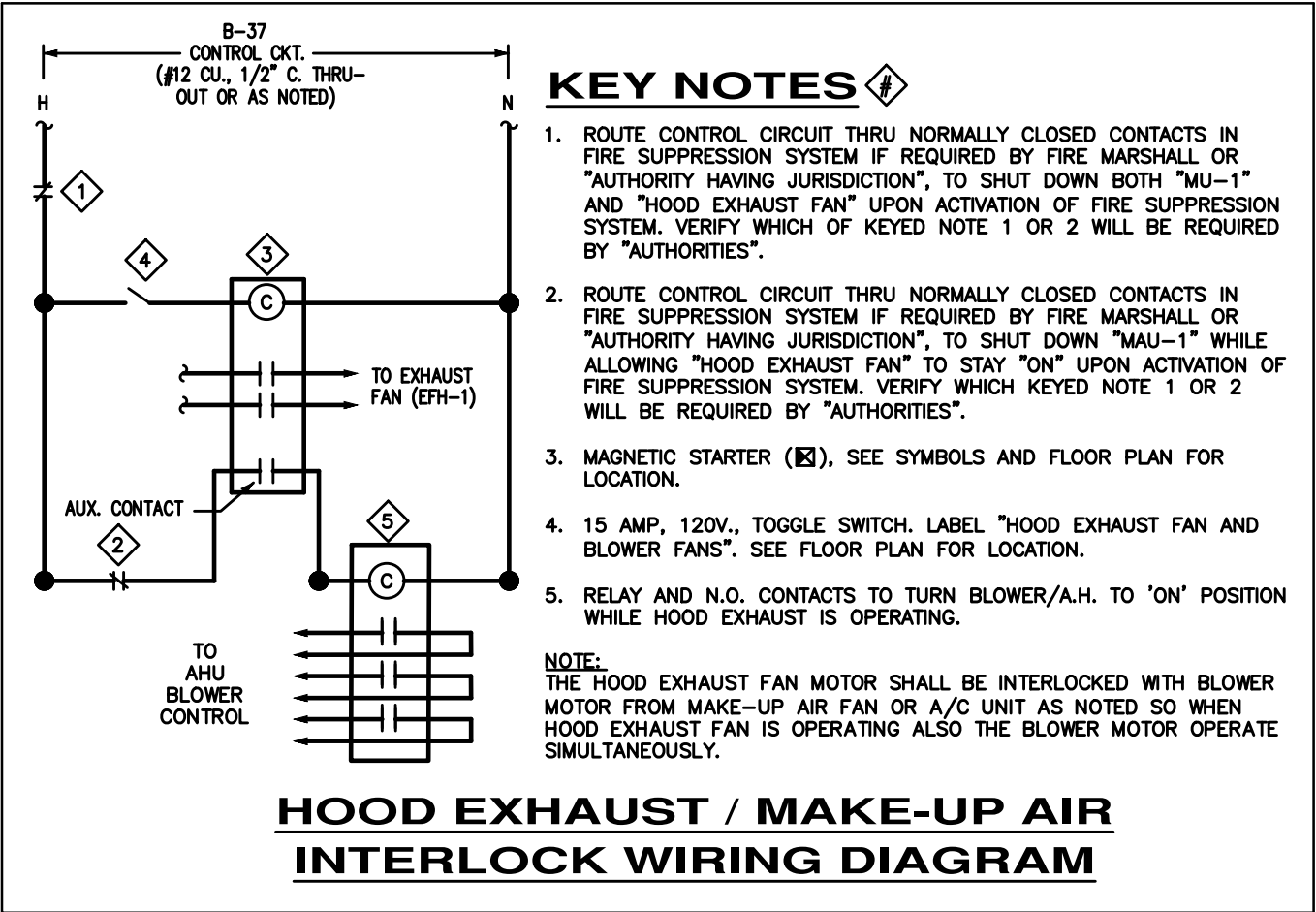
B															
ROOM				VOLTS 208Y/120V 3P 4W								AIC 10,000			
MOUNTING FLUSH				BUS AMPS 125								MAIN BKR MLO			
FED FROM A				NEUTRAL 100%								LUGS STANDARD			
NOTE NEW															
OKT	#	BKR	CIRCUIT DESCRIPTION	KVA LOAD			OKT	#	BKR	CIRCUIT DESCRIPTION	KVA LOAD				
				A	B	C					A	B	C		
1	20/1		K12 BORI CONVEYOR OWEN	0.72			2	20/1		K12 BORI CONVEYOR OWEN	0.72				
3	-/1		SHUNT TRIP		0		4	-/1		SHUNT TRIP		0			
5	-/1		SPACE				6	20/1		GREASE TRAP REC.			1.2		
7	20/1		RR REC. GFCI	0.18			8	-/1		SPACE					
9	20/1		GPS TV GFCI		0.6		10	-/1		SPACE		0			
11	20/1		PIZZA TRACKER TV GFCI			0.6	12	20/1		MAN OFF REC.			0.36		
13	20/1		DRY STORACR-TRAP REC. GFCI	0.72			14	20/1		MAN OFF REC.	0.36				
15	20/1		UNIFIED OFF MON GFCI		0.6		16	20/1		MENU MONITOR GFCI		0.6			
17	20/1		DOMINO'S LOGO REC. GFCI			0.18	18	20/1		T.M.B. REC.			1.08		
19	20/1		ROOF RECEPTACLE GFCI	0.36			20	20/1		DAMPER	0.54				
21	20/1		REC&DATA PRINTER REC. GFCI		0.18		22	20/1		AHU-2		1.66			
23	20/1		DRIVER DISP REC. GFCI			0.18	24	20/1		AHU-3			1.66		
25	20/1		P.O.S. REC. GFCI	0.6			26	20/1		MAKELINE MONITOR GFCI	0.6				
27	20/1		P.O.S. REC. GFCI		0.6		28	20/1		MAKELINE MONITOR GFCI		0.3			
29	-/1		DINING RM. GFCI			0	30	30/2		CJ-2		1.98	1.98		
31	-/1		ORDER STA REC. GFCI	0			32	30/2		CJ-3	1.98				
33	20/1		ORDER STA REC. GFCI		0.18		34	30/2				1.98			
35	-/1		SPACE				0	36					1.98		
37	20/3		EFH-1	0.305			0	38	40/3			0			
39					0.305			40							
41						0.305	42					0			
TOTAL CONNECTED KVA BY PHASE											7.08	7	9.51		
TOTAL CONNECTED AMPS BY PHASE											58.8	59.1	79.2		
				CONN. KVA	CALC. KVA						CONN. KVA	CALC. KVA			
LIGHTING				0	0	(125%)	CONTINUOUS				0	0	(125%)		
LARGEST MOTOR				3.95	4.94	(125%)	HEATING				0	0	(100%)		
OTHER MOTORS				8.18	8.18	(100%)	NONCONTINUOUS				0	0	(100%)		
RECEPTACLES				10	10	(50%-100)	KITCHEN EQUIP				1.44	1.44	(100%)		
KITCHEN				0	0	(100%)	NONCON/DIVERSE				0	0	(N/A)		
							TOTAL KVA				23.6	24.6			
BALANCED THREE PHASE AMPS 68.2															

LUMINAIRE SCHEDULE								
CALLOUT	SYMBOL	LAMP	MODEL	DESCRIPTION	BALLAST	MOUNTING	INPUT WATTS	VOLTS
A1		(1) LED	COLUMBIA LJ22-50-VLG-FSA12-EDU	2'X2' LED 4718 LUMEN PRISMATIC TROFFER	STANDARD	CEILING	42	120V 1P 2W
AE		(1) LED	COLUMBIA LJ22-50-VLG-FSA12-EDU-ELL14	2'X2' LED 4718 LUMEN PRISMATIC TROFFER NIGHT LIGHT.	STANDARD	CEILING	42	120V 1P 2W
B		(1) LED	LOTUS LED LL6R-30K-WH-FRP6	6" APERTURE LED 980 LUMEN DOWNLIGHT	STANDARD	RECESSED	17	120V 1P 2W
C		(1) LED	LOTUS LED LL6R-30K-WH-FRP7	6" APERTURE LED 980 LUMEN DOWNLIGHT	STANDARD	RECESSED	17	120V 1P 2W
CE		(1) LED	LOTUS LED LL6R-30K-WH-FRP7	6" APERTURE LED 980 LUMEN DOWNLIGHT NIGHT LIGHT	STANDARD	RECESSED	17	120V 1P 2W
EM1		(2) 0.56W LED	COMPASS (HUBBELL) CU2	LED EMERGENCY LIGHT WITH EMERGENCY BATTERY BACK UP 90 MINUTE MINIMUM.	STANDARD	WALL	1	120V 1P 2W
EM2		(2) 3W LED	COMPASS (HUBBELL) CUW	DECORATIVE LED AC/EMERGENCY LIGHT WATERPROOF	STANDARD	WALL	9	120V 1P 2W
EXL		(1) 4.12W LED	COMPASS (HUBBELL) CCR	EXIT SIGN WITH EMERGENCY BATTERY BACKUP 90 MIN MINIMUM	STANDARD	WALL	4.12	120V 1P 2W

GENERAL NOTES:
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"



LIGHT SENSOR SYMBOLS:

- STANDARD RANGE ULTRASONIC/INFRARED SENSOR (MOUNTED TO CEILING)
MFR: SENSORSWITCH, CAT# CMR-PDT-9. (OR EQUAL)
- STANDARD RANGE AUTOMATIC DIMMING CONTROL SENSOR (MOUNTED TO CEILING)
MFR: SENSORSWITCH, CAT# CMR-ADC. (OR EQUAL)
(LOWER CASE LETTER DESIGNATES WHICH FIXTURES ARE TO BE CONTROLLED BY THIS SENSOR)
- WALL MOUNTED TIME SWITCH WITH OVERRIDE FUNCTION.
MFR: INTERMATIC, CAT# E1600WC. (OR EQUAL)
COORDINATE LOCATION WITH OWNER. CONNECT TO 120V LIGHTING BRANCH CIRCUITS TO PROVIDE AUTOMATIC SHUT-OFF.
- DAY LIGHT SENSOR
- WALL MOUNTED OCCUPANCY/VACANCY SENSOR SWITCH
- WALL MOUNTED DIMMER SWITCH

COMcheck Software Version 4.1.5.1
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2015 IECC
Project Title: DOMINO'S PIZZA
Project Type: Alteration

Construction Site: 3544 SW Market St
Lee's Summit, MO 64082
Owner/Agent: Designer/Contractor: AZ

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Common Space Types:Food Preparation	1170	1.21	1416
Total Allowed Watts =			1416

Proposed Interior Lighting Power

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Common Space Types:Food Preparation (1170 sq.ft.)				
LED 1: A1: 2X2: Other:	1	17	42	714
LED 2: AE: 2X2 NL: Other:	1	1	42	42
LED 3: B: CAN: Other:	1	4	17	68
LED 4: C: CAN: Other:	1	4	17	68
LED 5: CE: CAN NL: Other:	1	1	17	17
Total Proposed Watts =			909	

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2015 IECC requirements in COMcheck Version 4.1.5.1 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

COMcheck Software Version 4.1.5.1
Inspection Checklist

Energy Code: 2015 IECC

Requirements: 100.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

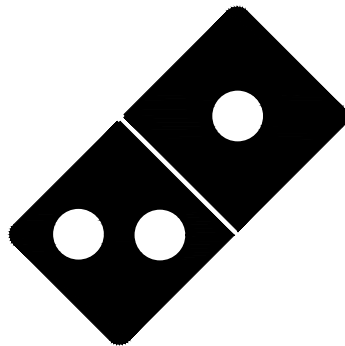
Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
07/16/2021



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



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 Management LLC dba Domino's
3901 Blue Ridge Cutoff
Kansas City, MO 64133
816.501.8388

ISSUED FOR PERMIT:
04.13.2021

REV: DATE:	DESCRIPTION:
07.15.21	CITY COMMENTS

SHEET NAME:

ELECTRICAL
LIGHTING PLAN

SDE-21058

SHEET NUMBER:

E2.0

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- GENERAL NOTES:
- A. PROVIDE DUAL ELEMENT FUSES AND SIZE PER EQUIPMENT NAMEPLATE.
- KEY NOTES:
- E = FURNISHED BY ELECT. CONTRACTOR
F = FUSED (300V = FRNR / 600V = FRSR)
B = BREAKER
I = INTEGRAL WITH UNIT
NF = NON-FUSED
Q = FURNISHED WITH EQUIPMENT
N3R = NEMA-3R RATED
N1 = NEMA-1 RATED

GENERAL EQUIPMENT SCHEDULE										
CALLOUT	SYMBOL	DESCRIPTION	NEMA	VOLTS	AMPS	MCA	KVA	CALC. LOAD KVA	CIRCUIT	WIRE CALLOUT
AHU-1(E)		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		AIR HANDLER #2		120V 1P 2W	13.8		1.66	2.07	B-22	3/4"C,1#12,#12N,#12G
AHU-3		AIR HANDLER #3		120V 1P 2W	13.8		1.66	2.07	B-24	3/4"C,1#12,#12N,#12G
CU-1(E)		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		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		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		EXHAUST FAN #1		120V 1P 2W	0.83		0.1	0.13	A-29	3/4"C,1#10,#10N,#10G
EFH-1		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		HEAT TAPE & LIGHTS		120V 1P 2W	6		0.72	1	A-16	3/4"C,1#12,#12N,#12G
K10		MAKELINE LCP		120V 1P 2W	8.6		1.03	1	A-13	3/4"C,1#12,#12N,#12G
K12		DOUBLE STACK CONVEYOR		120V 1P 2W	6		0.72	1	B-1	3/4"C,1#12,#12N,#12G
K12		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		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

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

GENERAL KITCHEN NOTES

- FINAL CONNECTION TO ALL KITCHEN EQUIPMENT SHALL BE MADE WITH "SEAL-TITE" FLEXIBLE CONDUIT.
- THE ELECTRICAL CONTRACTOR SHALL MAKE FINAL ELECTRICAL CONNECTIONS TO ALL KITCHEN FOOD SERVICE AND RELATED EQUIPMENT.
- K# - INDICATES FOOD SERVICE EQUIPMENT IDENTIFICATION NUMBER. SEE KITCHEN SCHEDULE ON THIS SHEET.
- 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.
- PROVIDE SEAL-OFF'S FOR ALL CONDUITS ENTERING OR LEAVING WALK-IN BOXES.
- 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.
- ALL CIRCUITS SHALL HAVE AN INSULATED GROUND WIRE (BOND) SIZED PER I.E.C. 250.122. #12 MINIMUM GROUND. WIRE NOT SHOWN ON DRAWINGS.
- THE ELECTRICAL CONTRACTOR SHALL FURNISH AND INSTALL DISCONNECT SWITCHES, CONDUIT, WIRE AND INSTALL UNDER SUPERVISION OF KITCHEN EQUIPMENT SUPPLIER.
- THE ELECTRICAL CONTRACTOR SHALL VERIFY THE PLUG CONFIGURATIONS FOR APPLICABLE KITCHEN EQUIPMENT WITH SUPPLIER PRIOR TO ROUGH-IN.
- PROVIDE GFCI PROTECTION FOR ALL KITCHEN RECEPTACLES PER NEC 210.8(B).
- ALL RECEPTACLES IN PRODUCTION AREA LOW WALL SHALL BE MOUNTED HORIZONTALLY AT +6" BELOW LOW WALL CAP U.N.O.

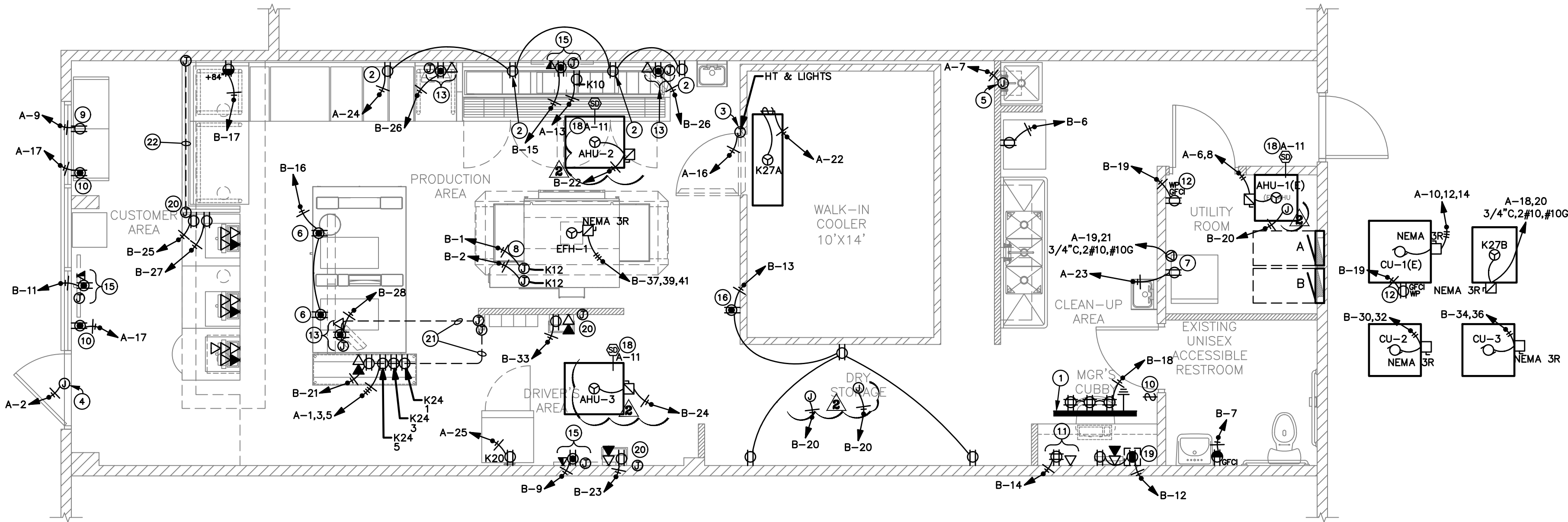
DATA ROUGHS ARE BY GC AND DATA CABLING BY DOMINO'S VENDER

KEYED NOTES

- 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.
- RECEPTACLE BEHIND MAKELINE AND PREP COUNTER RECOMMENDED TO BE MOUNTED AS HIGH AS POSSIBLE U.N.O. COORDINATE MOUNTING HEIGHTS & LOCATION WITH OWNER.
- 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.
- 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.
- PROVIDE A CEILING MOUNTED RECEPTACLE FOR CONNECTION TO LED MENU BOARD. 800 WATTS MAX (EACH). VERIFY EXACT REQUIREMENTS WITH SUPPLIER AND THE LOCATION IN FIELD.
- 30A, 120/208V 1PH. RECEPTACLE FOR ELECTRIC STACKED SEPARATE 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.
- PROVIDE JUNCTION BOX FOR CONNECTION TO OVEN CONTROLLER. COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS OF CONTROLS WITH SUPPLIER.
- PROVIDE A TAMPER RESISTANT COMBINATION 15A, 120V RECEPTACLE AND A USB CHARGER DEVICE TO BE EQUAL TO ARROWPOINT TR7740W. MOUNT COMBO-OUTLETS HORIZONTALLY AT +38" AFF.
- 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 ROUGH-IN.
- 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.
- PROVIDE A WP/GFI RECEPTACLE WITHIN 25'-0" OF HVAC EQUIPMENT. MOUNT RECEPTACLE AT +18" ABOVE ROOF/GROUND AS APPROPRIATE TO MEET NEC.
- CONTRACTOR TO PROVIDE A DUPLEX RECEPTACLE AND DATA OUTLET AS SHOWN MOUNTED ABOVE CEILING.
- NOT USED.
- PROVIDE POLE/CEILING MOUNTED RECEPTACLE FOR PIZZA TRACKER OR TV.
- PROVIDE A 20A, 120V, DUPLEX RECEPTACLE IN CEILING FOR MAGNETIC CAR-TOPPERS ABV. VERIFY LOCATION AND ADDITIONAL REQUIREMENTS WITH OWNER.
- NOT USED.
- SMOKE DETECTOR MOUNT IN DUCT PER MECHANICAL CODE REQUIREMENTS. CONNECTIONS CALLED OUT ON MECHANICAL PLANS.
- PROVIDE USB/DUPLEX RECEPTACLE, COORDINATE EXACT LOCATION WITH OWNER PRIOR TO ROUGH-IN.
- 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.
- CONDUIT UNDER GROUND.
- 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.



ELECTRICAL POWER PLAN

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

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 Management LLC dba Domino's
3901 Blue Ridge Cutoff
Kansas City, MO 64133

ISSUED FOR PERMIT:
04.13.2021

REV: DATE: DESCRIPTION:
A 07.15.21 CITY COMMENTS

SHEET NAME:

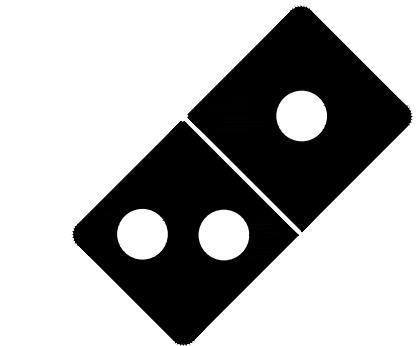
ELECTRICAL
POWER PLAN

SDE-21058

SHEET NUMBER:

E3.0

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



816.501.8388

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Pizza Theater Tenant Improvement
3544 SW Market St., Lee's Summit, MO 64082
for DESZ Management LLC dba Domino's
3901 Blue Ridge Cutoff
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ELECTRICAL
POWER PLAN

SDE-21058

SHEET NUMBER:

E3.0

SPLIT SYSTEM HVAC EQUIPMENT SCHEDULE																																			
DESIGNATION	MANUFACTURER	TONNAGE	SEER	SYSTEM TYPE	S AIR CAPACITIES SECTION	BLOWER AIR FLOW (CFM)	O.A. AIRFLOW OPERATING (CFM)	MIN. O.A. AIRFLOW (CFM)	ESP. (IN.WG)	O.A. TEMP. (DB)	E.A.T. (°WB)	E.A.T. (°DB)	TOTAL COOL. CAP. (MBH)	SEV. COOL. CAP. (MBH)	LAT. COOL. CAP. (MBH)	CONDENSER SECTION	CONDENSING MODEL NUMBER	CONDENSER (HP)	CONDENSER FAN FLUX (AMPS)	COMPRESSOR R.A./L.A. (AMPS)	NCA (AMPS)	MOOP. MIN/MAX (AMPS)	CONDENSER ELECTRIC SERVICE	CONDENSER WEIGHT (LBS)	AIR HANDLER SECTION	MODEL NUMBER	AHU FAN FLA (AMPS)	AHU FAN (HP)	AHU WEIGHT (LBS)	FILTERS	HEAT/SOURCE	HEATER EFFICIENCY	AIR HANDLING UNIT ELECTRIC SERVICE	ACCESSORIES	
AHU-1 (E) CU-1 (E)	CARRIER	3.0	—	HEAT PUMP		1200	305	75	0.8	100	82.0	67.0	—	—	—		38YCC036	1/4	—	11.3—78	15.5	20	208/3/60	—			FA4ANF036	2.4	⅜	—	2" THICK MERV 8	36MBH/HEAT PUMP	—	208/1/60	—
AHU-2,3 CU-2,3	RHEEM	3.0	14.0	ELECTRIC / GAS		1200	305	75	0.8	100	82.0	67.0	36.0	27.0	9.0		RA1436A	—	—	14.1	19	30	208/1/60	262			R92PA060/RCF36	4.6	¾	159	2" THICK MERV 8	60MBH/N.GAS	92%	120/1/60	NOTES 1,2&3
NOTES:																																			
1. UPFLOW FURNACE CONFIGURATION, EXTERNAL BOTTOM FILTER RACK																																			
2. SINGLE STAGE COOLING, CRANKCASE HEATER, LOW AMBIENT CONTROL., HIGH & LOW PRESSURE CONTROL, COMPRESSOR TIME DELAY, HARD START KIT AND ⅔ PROGRAMMABLE T'STAT. F&I ACR REFRIGERANT PIPING. UPSIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS TO MEET THE ACTUAL INSTALLATION CONDITIONS.																																			
3. F&I 3 POSITION MOTORIZED DAMPERS ON O.A. INTAKE DUCT.																																			

HVAC ITEMS LEGEND	
SYMBOL	DESCRIPTION
	DUCT (SIZE IS CLEAR INSIDE DIMENSION) RETURN DUCT (SIZE IS CLEAR INSIDE DIMENSION)
	SQUARE ELBOW WITH TURNING VANES
	AIR EXTRACTOR W/ VOLUME DAMPER (V.D.)
	DUCT TRANSITION
	INTERNALLY LINED DUCT
	HIDDEN DUCT
	RETURN AIR GRILLE
	CEILING DIFFUSER (4-W THROW UNLESS DIRECTION ARROWS SHOWN)
	FLEXIBLE DUCT WORK
	DOOR UNDERCUT
	SUPPLY REGISTER
	WALL CAP
	EXHAUST FAN
	FIRE DAMPER
	DUCT SMOKE DETECTOR
	MANUAL VOLUME DAMPER (MVD)
	MOTORIZED DAMPER
	HUMIDITY SENSOR
	THERMOSTAT
	TEMPERATURE SENSOR
	AIR FLOW DIRECTION
	SUPPLY AIR DUCT UP / DOWN
	SUPPLY AIR DUCT UP / DOWN
	RETURN AIR DUCT UP / DOWN
	EXHAUST AIR DUCT UP / DOWN

SELECTED EQUIPMENT IN THESE DRAWINGS CAN BE SUBSTITUTED WITH EQUIPMENT OF EQUAL PERFORMANCE FROM ANOTHER MANUFACTURER THAT IS PREFERRED BY OWNER/MECHANICAL CONTRACTOR.

ABBREVIATIONS	
ABBREV.	DESCRIPTION
A/C	ABOVE CEILING
A/G	ABOVE GRADE
ACD	CONDENSATE DRAIN
AFF	ABOVE FINISHED FLOOR
AP	ACCESS PANEL
ARCH	ARCHITECT/ARCHITECTURAL
B/F	BELOW FLOOR
B/G	BELOW GRADE
BHP	BRAKE HORSE POWER
CFM	CUBIC FEET / MINUTE
CONN	CONNECT/CONNECTION
CU	CUBIC
CW	DOMESTIC COLD WATER
EA	EXHAUST AIR
EXH	EXHAUST
F&I	FURNISH AND INSTALL
FF	FINISHED FLOOR
FT	FEET
GPM	GALLONS PER MINUTE
HP	HORSE POWER
IN	INCHES
OA	OUTSIDE AIR
POC	POINT OF CONNECTION
RA	RETURN AIR
RPM	REVOLUTIONS/MINUTE
SA	SUPPLY AIR
SQ	SQUARE
T'STAT	THERMOSTAT
UC	UNDERCUT DOOR
UON	UNLESS OTHERWISE NOTED
WG	WATER GAUGE

REFRIGERATION EQUIPMENT SCHEDULE		
DESIGNATION	WICF-1	WICC-1
APPLICATION	WALK-IN COOLER FAN COIL	WALK-IN COOLER CONDENSING UNIT
MANUFACTURER	KOLPAK	KOLPAK
MODEL	FAN COIL FOR A 10'X14' WALK-IN	CONDENSING UNIT FOR A 10'X14' WALK-IN
REFRIGERANT	---	404A
COMMENTS	NOTE 1	NOTE 2
NOTE: 1. COORDINATE WITH ARCHITECTURAL AND ELECTRICAL PLANS 2. F&I W/ACR REFRIGERANT PIPING, ALL VALVES, APPURTENANCES AND EQUIPMENT REQUIRED FOR COMPLETE SYSTEM. UPSIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS TO MEET ACTUAL INSTALLATION CONDITIONS.		

RESTAURANT AIR BALANCING SCHEDULE			
EXHAUST UNIT	EXHAUST AIR FLOW (CFM)	PROVIDED BY	O.A. AIR FLOW (CFM)
EFH-1	830	AHU-1,2&3	AHU-1: 305 AHU-2: 305 AHU-3: 305
*EF-1	85	—	—
EXFILTRATION	—	—	—
TOTAL EXHAUST	915	TOTAL O.A.	915
*FANS TO BE OPERATING ON AN INTERMITTENT BASIS			

KITCHEN EXH AIR CALCULATIONS				
AREA	SQFT	CFM/SQFT	TOTAL CFM	PROVIDED BY
KITCHEN	472	0.7	330.4	EFH-1

O.A. CALCULATIONS							
AREA	OCCUPANCY	CFM/PERSON	SUBTOTAL	SQUARE FEET	CFM/SQFT	SUBTOTAL	TOTAL CFM
LOBBY	2	7.5	15.0	106	0.18	19.1	34.1
STORAGE	2	0.0	0.0	591	0.12	70.9	70.9
PRODUCTION	3	7.5	22.5	472	0.18	85.0	107.5
TOTAL						212	

AIR DISTRIBUTION DEVICES				
DESIGNATION	"SD-1"	"SD-3"	—	"RG-1"
DESCRIPTION	PERFORATED CEILING DIFFUSER	LOUVER CEILING DIFFUSER	—	PERFORATED CEILING INLET
APPLICATION	SUPPLY	SUPPLY	—	RETURN / EXHAUST
DESIGN MFG.	TITUS	TITUS	—	TITUS
MODEL NO	PAS-AA	TMS-AA	—	PAR-AA
ACCESSORIES	OBD	OBD	—	—
NOTES	NOTES 3,6&7	NOTES 1&3	—	NOTES 2,3,5&8
NOTES: 1. ADJUSTABLE CORE DIFFUSER WITH ROUND NECK. 2. BORDER FOR A 24X24 LAY-IN CEILING GRID. 3. F&I WITH R-6 MOLDED INSULATION BLANKET. 4. DOUBLE DEFLECTION GRILLE, DUCT MOUNTED (NO CEILING). 5. DOUBLE END CAPS TO MATCH DUCT SIZE. MOUNT GRILLE AT 45° ANGLE BELOW HORIZONTAL. ADJUST BLADES FOR PROPER AIR DISTRIBUTION. 6. 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. 7. 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. 8. W/TYPE 3 FRAME BORDER FOR 24x24 CEILING GRID. 9. F&I W/OPPOSED BLADE DAMPER.				

GENERAL NOTES:

- DOOR UNDERCUTS TO PROVIDE A 0.75" CLEAR OPENING.
- MOUNT THERMOSTATS 48" ABOVE FINISH FLOOR TO CENTER.
- DUCTWORK AND EQUIP. SHOWN IS DIAGRAMMATIC. COORDINATE AND ROUTE DUCTWORK TO MEET JOB REQUIREMENT. LOCATION OF EQUIPMENT MUST BE 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.
- 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 WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS PRIOR TO FABRICATING AND INSTALLING ANY MATERIALS. HANG DUCTWORK AS CLOSE AS POSSIBLE TO THE STRUCTURE ABOVE, UNLESS INDICATED OTHERWISE.
- COORDINATE THE LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS.
- PASSAGES OF PIPES, CONDUITS, BUS DUCTS, CABLES, WIRE, AIR DUCTS, PNEUMATIC DUCTS, AND SIMILAR BUILDING SERVICE EQUIPMENT THROUGH FIRE 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 OR NFPA 251 FOR FIRE RATING.
- 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.
- CONTRACTOR SHALL BALANCE ALL SYSTEMS. F&I 3RD PARTY OR LICENSED HVAC CONTRACTOR INSPECTION AND FURNISH COPY OF THE REPORT TO THE CITY INSPECTOR.
- PLANS SHALL CONFORM TO THE THE CURRENT CODE AND LOCAL AMENDMENTS.
- ALL DIFFUSERS AND GRILLES ARE LESS THAN 20 LBS, CONTRACTOR SHALL POSITIVELY ATTACH TO CEILING MAIN RUNNERS.
- VENTS SHALL BE TERMINATED A MIN OF 1'-0" ABOVE ROOF AND 2'-0" ABOVE 8'-0" AWAY FROM PARAPETS OR WALLS.
- THERMOSTATS ARE LOW VOLTAGE PROGRAMMABLE THERMOSTATS AND ARE TO BE LOCATED AS SHOWN.
- IF THERE IS NO PARAPET, THE PARAPET IS LESS THAN 42" ABOVE ROOF SURFACE OR A DIFFERENCE IN WALKING SURFACE ELEVATION OF 3'-0", THE UNITS PLACED WITHIN 10'-0" OF EDGE OF ROOF, SHALL HAVE RAILINGS OR TIE-OFFS MEETING OSHA REQUIREMENTS.
- RUN-OUTS TO DUCTS TO AIR DISTRIBUTION DEVICES SHALL BE SIZED THE SAME AS THE CONNECTION TO THE AIR DISTRIBUTION DEVICE, UNLESS OTHERWISE NOTED.
- INTERIOR SUPPLY AND RETURN TRUNK DUCTS TO BE FIBERBOARD OR SHEET METAL. (TYP)
- F&I EQUIPMENT REQUIRING AN EXTERNAL SOURCE OF ELECTRICAL POWER FOR ITS OPERATION SHALL BE HAVE THE FOLLOWING:
 - READILY ACCESSIBLE DISCONNECTING MEANS WITHIN SIGHT OF THE EQUIPMENT.
 - 120 VAC GROUNDING-TYPE RECEPTACLE OUTLET ON THE ROOF ADJACENT TO WITHIN 25 FEET OF EQUIPMENT. THE RECEPTACLE OUTLET SHALL NOT BE CONNECTED TO THE LOAD SIDE OF THE EQUIPMENT DISCONNECTING MEANS NEC 210.63.
- 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 OR SPACE SERVED BY THE EQUIPMENT.
- FURNISH O&M MANUALS FOR HVAC SYSTEMS WITHIN 90 DAYS OF SYSTEM ACCEPTANCE.
- COMMISSIONING PLAN TO BE DEVELOPED BY REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY.
- HVAC EQUIPMENT TO BE TESTED TO ENSURE PROPER OPERATION.
- PRELIMINARY COMMISSIONING REPORT TO BE COMPLETED AND CERTIFIED BY REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY.
- AS-BUILT HVAC SYSTEMS DRAWINGS TO BE SUBMITTED WITHIN 90 DAYS OF SYSTEM ACCEPTANCE.
- PROVIDE AN AIR BALANCE REPORT FOR SYSTEMS TO THE OWNER.
- FINAL COMMISSIONING REPORT DUE TO BUILDING OWNER WITHIN 90 DAYS OF RECEIPT OF OCCUPANCY.
- HVAC SYSTEM CONTROLS TO BE TESTED TO ENSURE PROPER CALIBRATION, ADJUSTMENT AND OPERATION.
- FLASH AND COUNTERFLASH ALL PIPES, CONDUITS, DUCTS AND FLUES THROUGH ROOF AND / OR EXTERIOR WALLS. MAKE PENETRATIONS WATERTIGHT.
- 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 WHICH IS SHOWN ON THE MECHANICAL & ARCHITECTURAL DRAWINGS, THE AIR BALANCE SCHEDULE IS VOIDED AND SUFFICIENT AIR BALANCE IS NOT GUARANTEED. IN THE CASE OF A CHANGE IN FIELD, CONTRACTOR TO VERIFY MAKE-UP AIR REQUIREMENTS WILL BE MET.

VENTILATION FAN SCHEDULE				
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)	1/2	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. 2. INTERLOCK AHU-1, 2 & 3 AND EFH-1 FOR SYNCHRONIZED OPERATION. 3. 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. 5. F&I W/MFR SUPPLIED SPEED CONTROL TO BALANCE FAN. 6. SPEED SWITCH TO BE IN SECURED PANEL ADJACENT TO FAN ABOVE CEILING. 7. F&I W/ACR REFRIGERANT PIPING, ALL VALVES, APPURTENANCES AND EQUIPMENT REQUIRED FOR COMPLETE SYSTEM. UPSIZE REFRIGERANT PIPING PER MANUFACTURER'S RECOMMENDATIONS TO MEET ACTUAL INSTALLATION CONDITIONS. 8. VFD DRIVE.				

TYPE II KITCHEN HOOD SCHEDULE												
DESIGNATION	MANUFACTURER	MODEL	SUPPLY AIR (CFM)	MAKE-UP AIR DUCT CONN. (IN)	MAKE-UP AIR DUCT CONN. (IN)	EXHAUST AIR FLOW (CFM)	EXHAUST DUCT CONN. WITH (IN)	EXHAUST DUCT CONN. DEPTH (IN)	EXHAUST DUCT CONN. DEPTH (IN)	HOOD PRESS. (IN. W.C.)	VELOCITY AT DUCT (FT/MIN)	WEIGHT (LBS)
KH-1	AVI	3255	---	---	---	830	12	12	12	1"	830	750
NOTES: 1. REFER TO HOOD MANUFACTURER'S CUT-SHEETS FOR REQUIRED FOOD INFORMATION. EQUIPMENT AND APPLIANCES SHALL BE INSTALLED AS REQUIRED BY THE TERMS OF THEIR APPROVAL IN ACCORDANCE WITH THE CONDITIONS OF THE LISTING. THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND THE CURRENT CODE HAVING JURISDICTION.. 2. MANUFACTURER'S INSTALLATION INSTRUCTIONS SHALL BE AVAILABLE ON THE JOB SITE AT THE TIME OF INSPECTION. 3. SUPPORT: HOOD SHALL BE SECURED IN PLACE BY SUPPORTS. ALL HOOD SUPPORTS SHALL BE ADEQUATE FOR THE APPLIED LOAD OF THE HOOD, THE UNSUPPORTED DUCTWORK AND THE POSSIBLE WEIGHT OF PERSONNEL WORKING IN OR ON THE HOOD. 4. CLEARANCES: MAINTAIN CLEARANCES AS PER HOOD MANUFACTURER'S RECOMMENDATIONS AND AS PER CODE STANDARDS.												

FIELD VERIFICATION NOTES:

- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO SUBMITTING BID. FIELD VERIFICATION WORK SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING
 - EXACT PLACEMENT, DIMENSIONS, CONDITIONS, CAPACITIES MANUFACTURER AND CONDITION OF ALL EXISTING HVAC EQUIP. WITHIN SCOPE OF WORK, WHETHER SPECIFICALLY SHOWN OR NOT.
 - SIZE, CONDITION AND LOCATIONS OF ALL EXISTING DUCTWORK.
 - SIZE, CONDITIONS AND LOCATIONS OF ALL EXISTING AIR DISTRIBUTION DEVICES, GRILLES, REGISTERS, DIFFUSERS, DAMPERS, ETC.
 - CONDITIONS AND LOCATION OF ALL EXISTING ENVIRONMENTAL AND AUTOMATED CONTROLS.
- ALL REFERENCES ON THESE DRAWINGS TO EXISTING EQUIPMENT, DUCTWORK, DIFFUSERS, THERMOSTATS AND PIPING ARE FOR REFERENCE ONLY. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL ITEMS PRIOR TO SUBMITTAL OF BID AND INCLUDE IN THE BID ANY AND ALL AMOUNTS REQUIRED TO ACCOMMODATE EXISTING CONDITIONS.
- NO ALLOWANCES OR MODIFICATIONS TO THE CONTRACTOR'S BID OR BID CONDITIONS, DUE TO FAILURE OF ACCURATELY VERIFYING EXISTING CONDITIONS, AFTER THE PROJECT HAS BEEN AWARDED.
- ANY DISCREPANCIES WHICH MAY AFFECT THE CONTRACTORS BID SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND THE ARCHITECT FOR DIRECTION AS SOON AS THEY ARE DISCOVERED.

REFRIGERANT PIPING NOTES:

- ONLY ACR RATED COPPER PIPE TO BE USED.
- IF SHUT-OFF VALVES (SOV) ARE NOT INSTALLED ON THE EQUIPMENT BY THE MANUFACTURER, INSTALL SOV ON EACH EQUIPMENT CONNECTION.
- INSTALL ADDITIONAL TX VALVE AS RECOMMENDED BY THE MANUFACTURER FOR THE LENGTH OF PIPING RUN.
- USE LONG RADIUS ELBOWS AND FITTINGS.
- ALL AHU UNIT TO HAVE AN INVERTED TRAP ON SUCTION LINE.
- F&I FILTER/DRYER NEXT TO THE CU ON THE LIQUID LINE. THE FILTER/DRYER TO BE FOLLOWED BY A SIGHTGLASS WITH MOISTURE INDICATOR. F&I SOV IMMEDIATELY DOWNSTREAM OF EACH SIGHTGLASS.
- ALL SUCTION AND HOT GAS BY-PASS LINES TO BE INSULATED.
- F&I CONDENSING UNITS WITH LOW AMBIENT TEMPERATURE PROTECTION SUCH AS CONDENSER FLOOD BACK, CONDENSER FAN SPEED CONTROL OR CONDENSER FAN CYCLING.
- FULLY CHARGE LINES AT THE END OF INSTALLATION, PRIOR TO SYSTEM START-UP.
- ADD ADDITIONAL OIL TO EACH SYSTEM AS PER MANUFACTURER'S RECOMMENDATIONS FOR THE SYSTEM'S PIPE SIZES AND LENGTH.
- PIPE MINIMUM BENDING RADIUS PER MANUFACTURER'S RECOMMENDATIONS, BUT IN NO CASE LESS THAN 4'.
- ADD ADDITIONAL REFRIGERANT AS RECOMMENDED BY THE MANUFACTURER OF EACH UNIT.

RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DEVELOPMENT SERVICES LEE'S SUMMIT, MISSOURI 07/16/2021

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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 Management LLC dba Domino's
3901 Blue Ridge Cutoff
Kansas City, MO 64133

ISSUED FOR PERMIT:
04.22.2021

REV: DATE: DESCRIPTION:

SHEET NAME:
MECHANICAL SCHEDULES, CALCULATIONS AND LEGEND

SHEET NUMBER:
M1.0

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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.

DUCT RUN-OUT SCHEDULE

DUCT CFM	DUCT SIZE
0-150	6" ROUND
150-270	8" ROUND
270-330	10" ROUND
330-470	12" ROUND
470-530	14" ROUND
530-690	16" ROUND

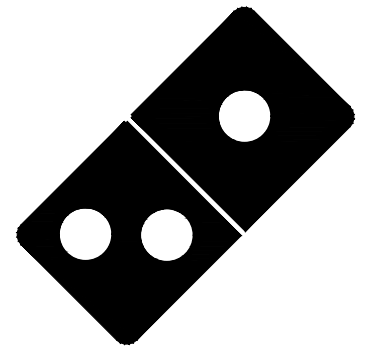
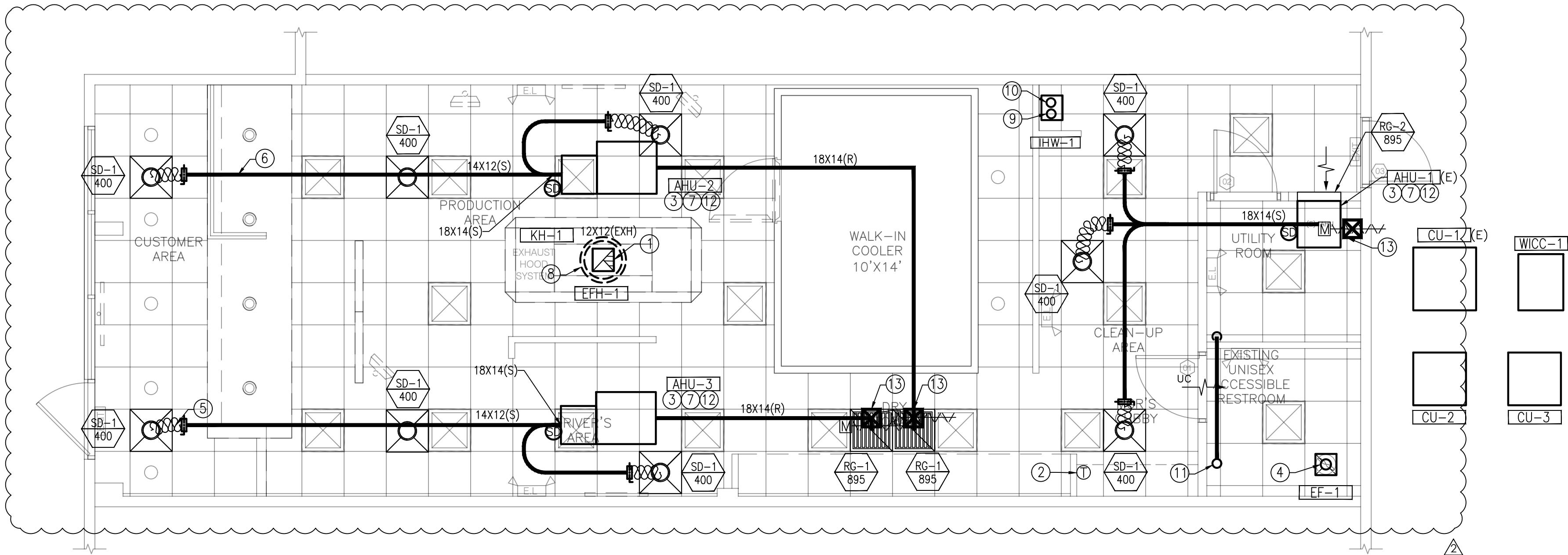
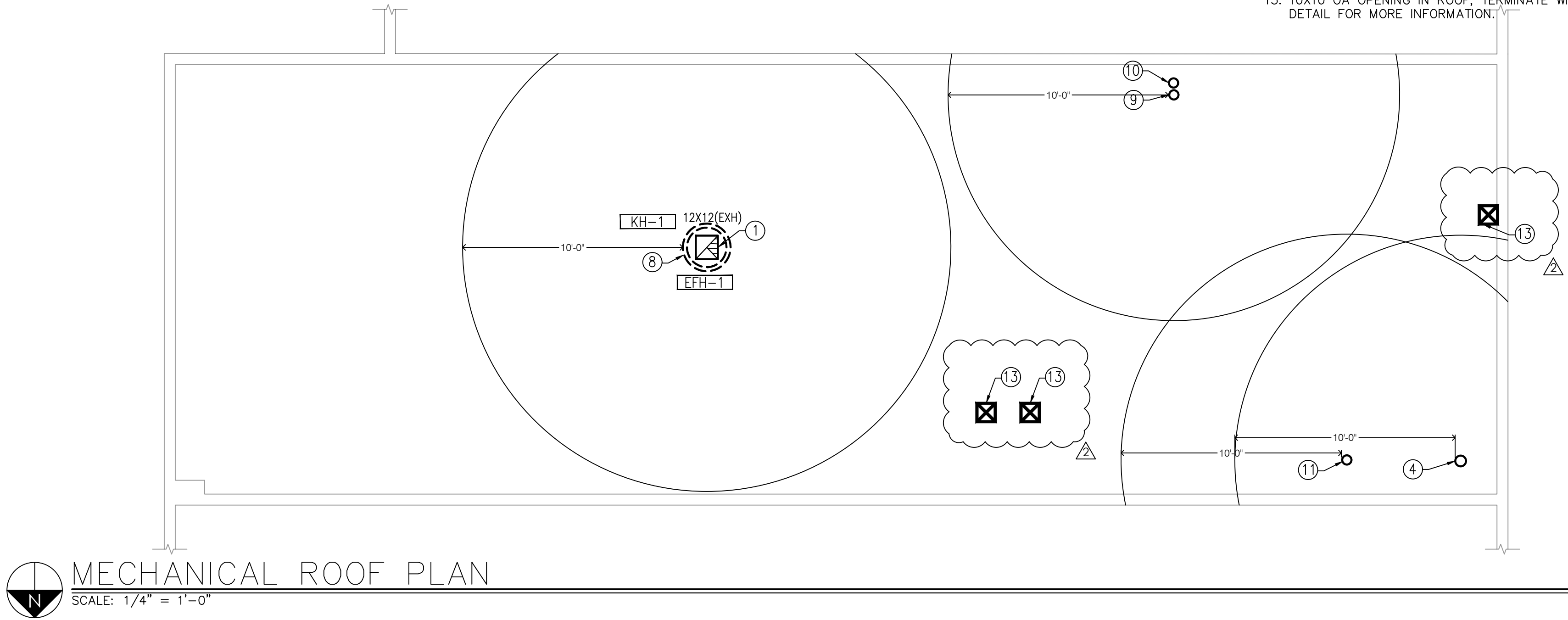
NOTES:
1. AIR DEVICE NECK SIZE SHALL
BE THE SAME AS RUNOUT SIZE.
2. RECTANGULAR DUCT SIZES OF
EQUIVALENT FREE AREA MAY BE
SUBSTITUTED FOR ROUND DUCT.
3. RUNOUTS MAY BE RIGID OR
FLEX DUCT PER SPECIFICATIONS.

RETURN AIR DEVICE NECK SIZE

NECK SIZE	CFM
6X6	0-100
8X8	100-200
10X10	200-400
12X12	400-650
15X15	650-1050
18X18	1050-1350
22X22	1350-2000

HVAC KEYED NOTES:

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).
7. DUCT RISER TO BE FULL SIZE OF UNIT'S DUCT CONNECTION.
8. 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 DETAIL FOR MORE INFORMATION.



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Kansas City, MO 64133

816.501.8388

ISSUED FOR PERMIT:
04.22.2021

REV:	DATE:	DESCRIPTION:
△	07.15.21	CITY COMMENTS

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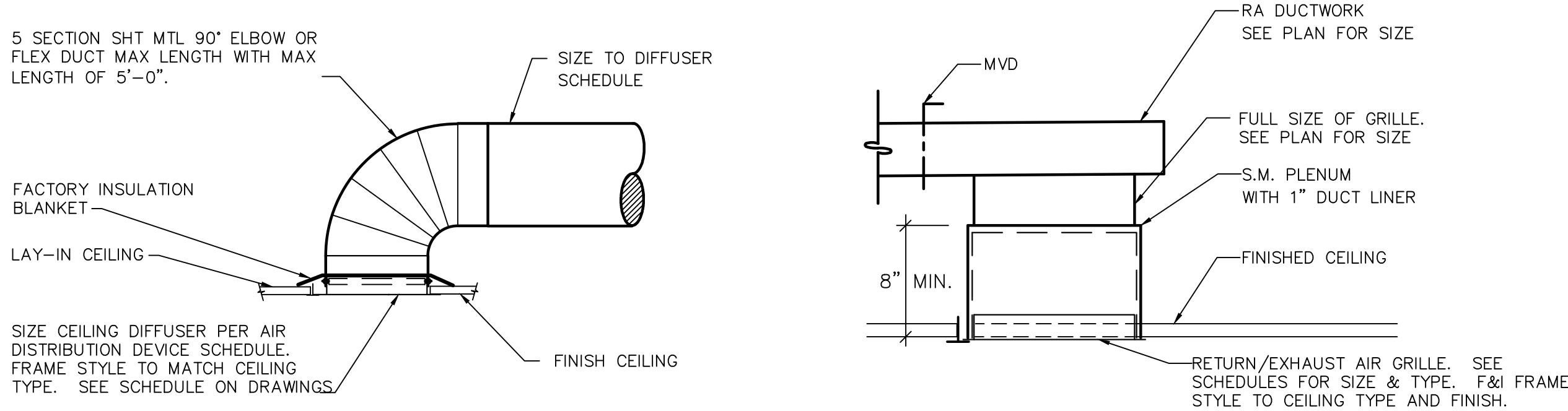
MECHANICAL PLAN

SHEET NUMBER:

M2.0

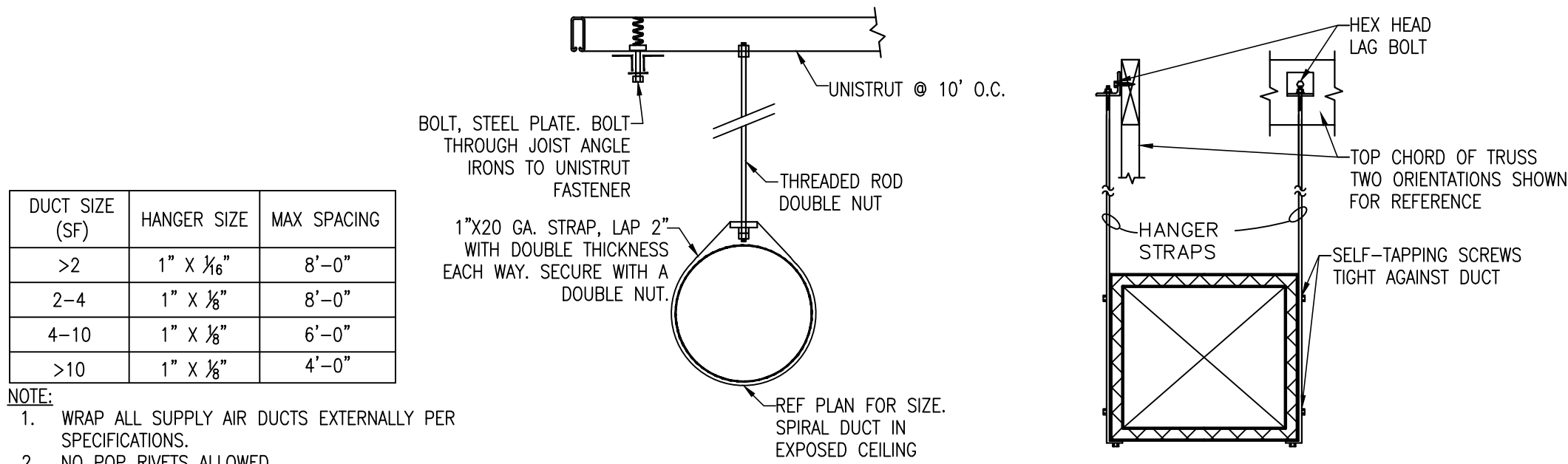
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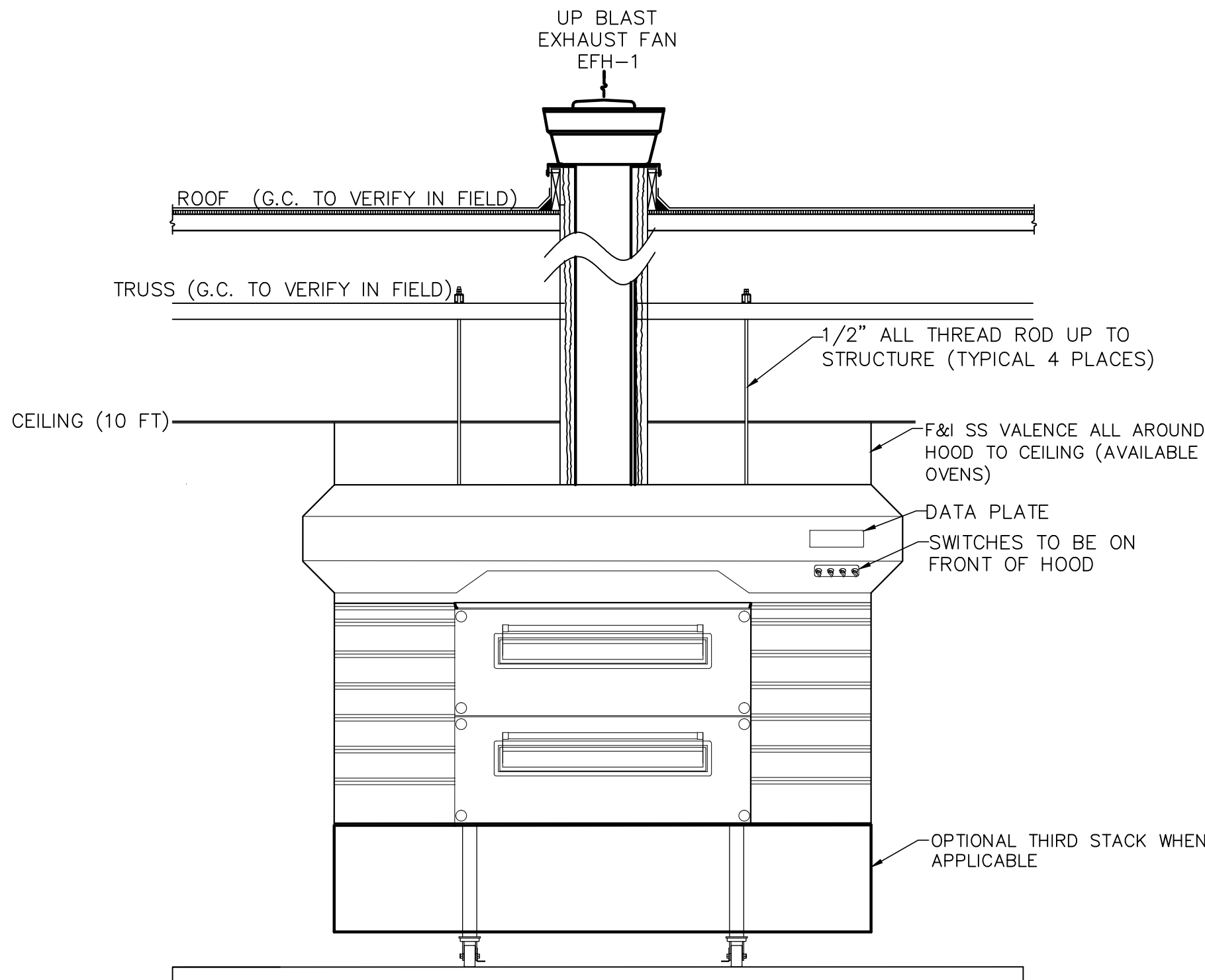


DIFFUSER INSTALLATION DETAIL
NO SCALE

RETURN/EXHAUST AIR GRILLE DETAIL
NO SCALE

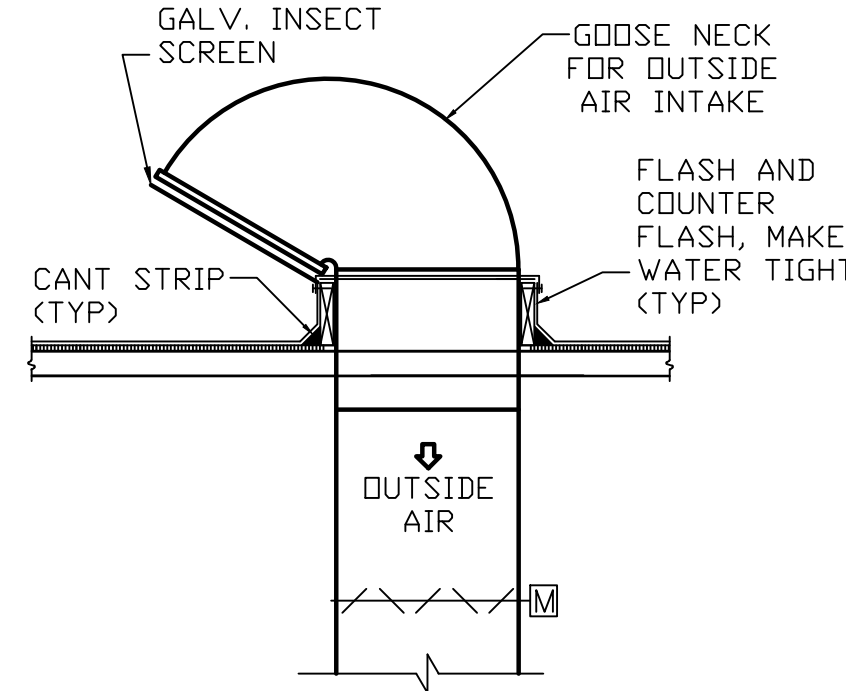


DUCT HANGER DETAIL
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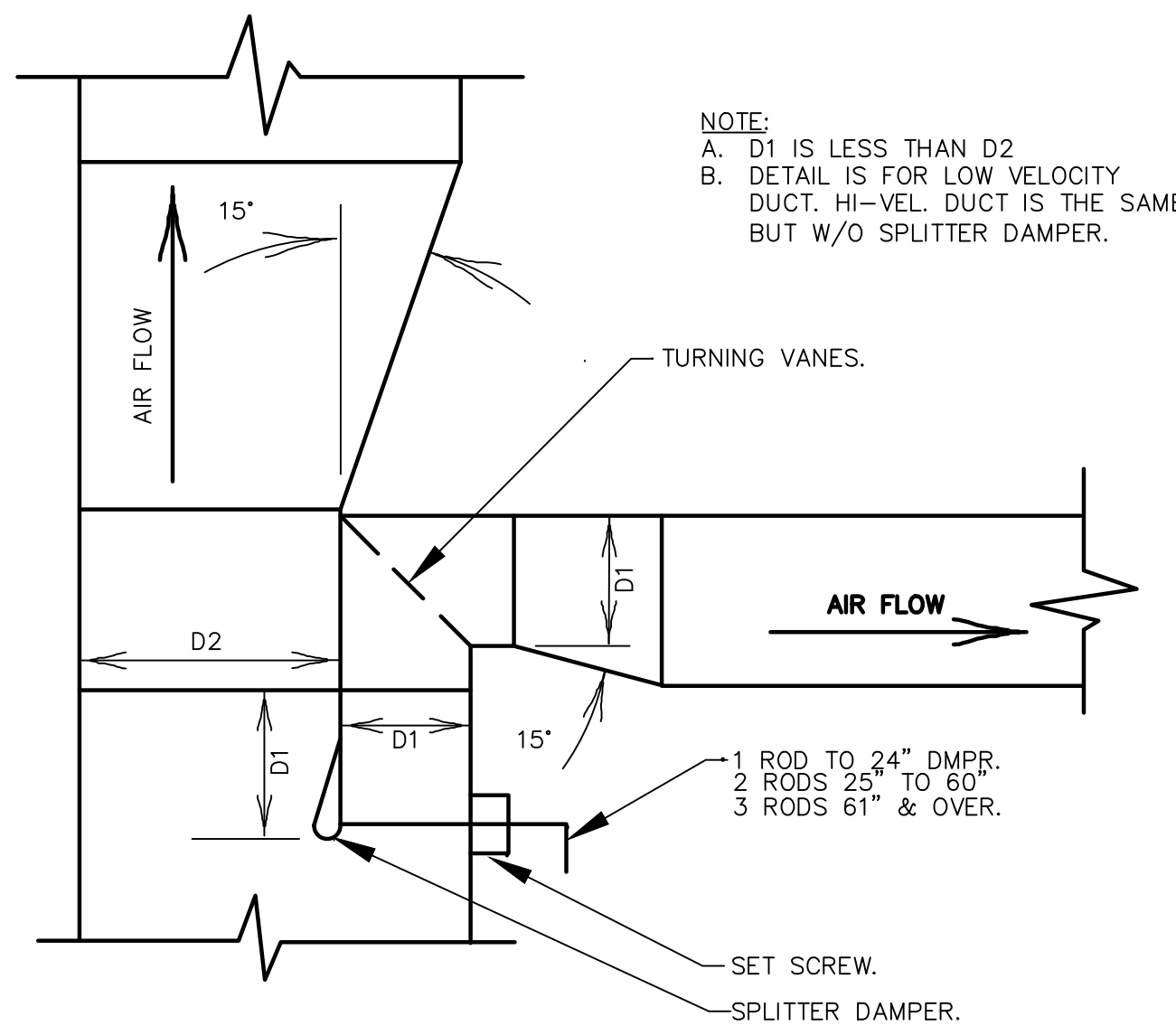


NOTE:
DETAIL IS DIAGRAMMATIC AND DOES NOT DENOTE THE NUMBER OF OVENS. SEE RCHITECTURAL PLANS FOR NUMBER OF OVENS.

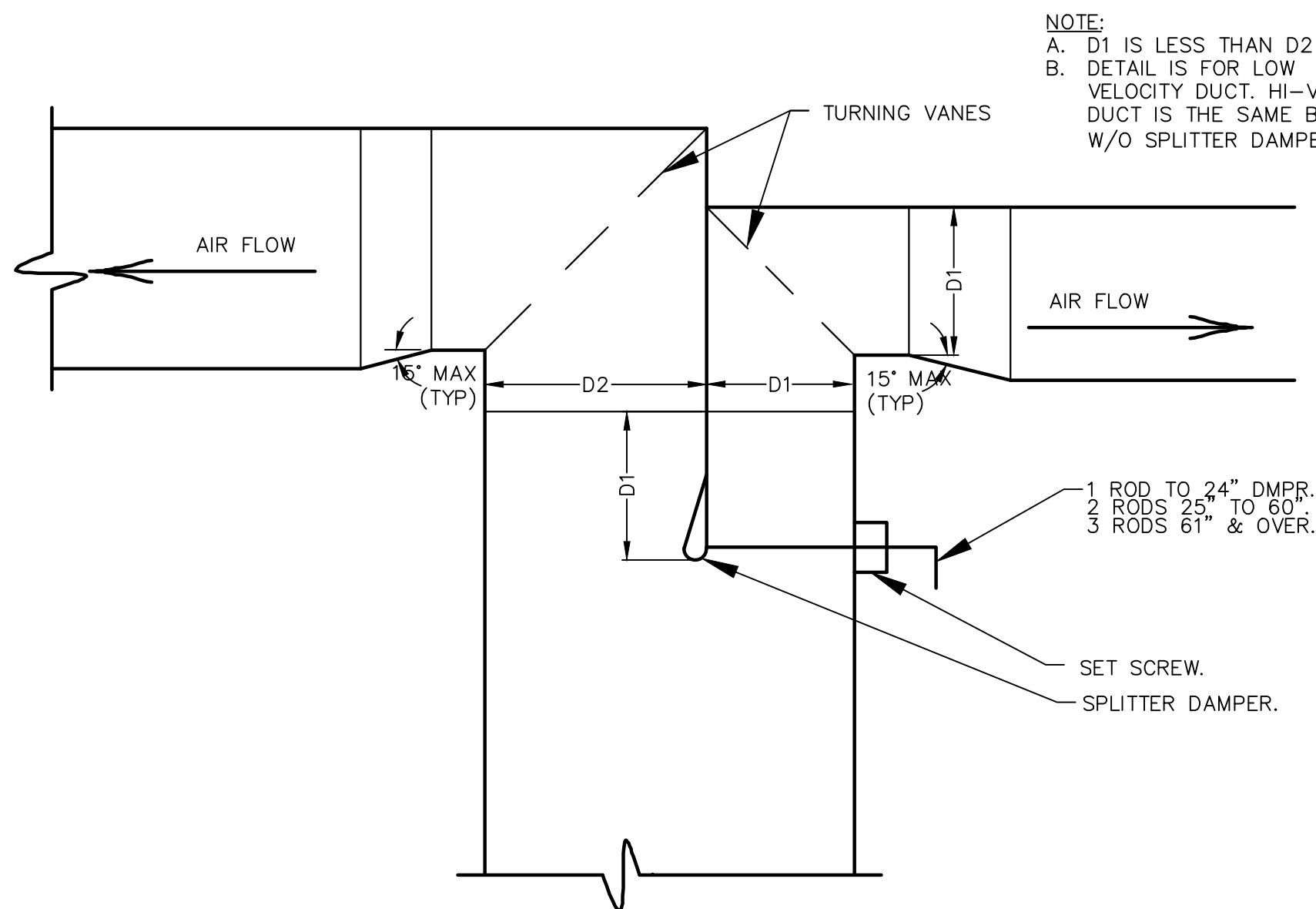
HOOD CLEARANCES AND DUCTS DETAIL
NO SCALE



AHU O.A. INTAKE DETAIL
NO SCALE



TYPICAL MAIN DUCT SPLITTER DAMPER TAKE-OFF DETAIL (SIMILAR FOR ROUND DUCTS)
NO SCALE



TYPICAL DUCT SPLITTER DAMPER DETAIL (SIMILAR FOR ROUND DUCTS)
NO SCALE

TYPE II HOOD SEQUENCE OF OPERATIONS

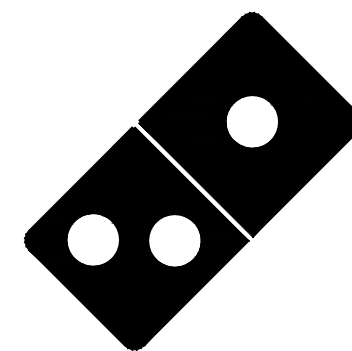
- AIR CONDITIONING UNITS (ACU)
 - ALL AIR CONDITIONING UNITS, ROOF TOP (RTU), AND SPLIT SYSTEM CONDENSER UNITS (CU) AND AIR HANDLING UNITS (AHU), SHALL BE CONTROLLED BY A PROGRAMMABLE 24/7 SMART THERMOSTAT DEVICE.
 - DEVICE TO HAVE A 100 F (ADJ) DEADBAND, PROGRAMMABLE START AND STOP TIMES, 3-POSITION ON/OFF/AUTO SELECTOR SWITCH AND A 2 HOUR MANUAL OVERRIDE.
- SUPPLY FANS (RTU & AHU)
 - EACH UNIT'S SUPPLY AIR FANS ARE ENERGIZED AND THE OUTSIDE AIR (OA) DAMPERS MODULATE TO POSITION TO ADEQUATELY PRESSURIZE BUILDING.
 - 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.
 - EACH UNIT'S FAN WILL CONTINUE TO RUN FOR 2 MINUTES (ADJ) AFTER THE HEATING OR COOLING ROOM TEMPERATURE SET POINT IS MET.
 - COOLING MODE:
 - COMPRESSOR WILL BE ENERGIZED TO COOL THE AIR TO ROOM AIR TEMPERATURE.
 - COMPRESSOR (S) WILL SHUT OFF WHEN MECHANICAL COOLING IS NO LONGER NEEDED.
 - HEATING MODE:
 - 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.
 - IF GAS HEATING IS NO LONGER NECESSARY, GAS BURNERS WILL SHUT OFF.
- MIXED AIR TEMPERATURE IS WITHIN 10 F DEGREES OF ROOM TEMPERATURE:
 - COMPRESSOR IS NOT ENERGIZED
 - GAS BURNERS ARE NOT ENERGIZED.
 - UNIT OPERATES IN THE ECONOMIZER MODE.
 - 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).
 - WHEN THE OA SET-POINT IS BELOW 55F (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.
 - ADDITIONAL HIGH LIMIT SHUT OFF CONTROLS BELOW.
 - OA TEMPERATURE > 75F
 - OA TEMPERATURE > RA TEMPERATURE
 - (OA TEMPERATURE, OA RELATIVE HUMIDITY)>AIR
 - OA HUMIDITY > RA HUMIDITY
 - OA DEW POINT > 55F
 - OA TEMPERATURE > 75F
 - NO FIXED ENTHALPY CONTROL.
- EXHAUST FANS
 - 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.).
- EXHAUST HOOD EXHAUST FAN (EFH-1)
 - GAS OVEN IS MANUALLY STARTED.
 - EXHAUST FAN EFH-1 AUTOMATICALLY ENERGIZES AND STARTS RUNNING.
 - 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.
 - ROOF TOP UNITS (RTU), AIR HANDLING UNITS (AHU) AND / OR MAKE-UP AIR UNITS (MAU) ARE CONSIDERED AS SUPPLY AIR UNITS (SAU).
 - IF THERE IS A DEDICATED MAKE-UP AIR UNIT PROVIDING OA TO A SELF-COMPENSATING HOODS, THIS UNIT SHALL BE THE FIRST UNIT STARTED.
 - AFTER A 5 SECOND (ADJ) INTERVAL, THE SAU BRING IN THE NEXT LARGEST AMOUNT OF OA INTO THE BUILDING STARTS.
 - THIS PROCESS CONTINUES UNTIL ALL OF THE SAU'S HAVE BEEN STARTED.
- WHEN GAS OVEN IS TURNED OFF:
 - ANY DEDICATED MAKE-UP AIR UNIT STOPS.
 - ON ALL SUPPLY AIR FANS OA DAMPERS CLOSE TO MINIMUM ALLOWED OA POSITION AND THE EA DAMPER IS SET TO ALLOW SLIGHT BUILDING PRESSURIZATION.
- UNOCCUPIED MODE:
 - VENTILATION AND ECONOMIZER DAMPERS BECOME FULLY CLOSED.
 - THERMOSTAT SENDS SIGNAL TO UNITS TO OPERATE IN SETBACK MODE UNTIL NEXT OCCUPIED MODE CYCLE PER THERMOSTAT PROGRAMMING.
 - DURING HEATING SEASON, THE UNITS TO BE EQUIPPED WITH CONTROLS TO AUTOMATICALLY RESTART AND TEMPORARILY OPERATE TO MAINTAIN A TEMPERATURE ABOVE 55F.
 - DURING COOLING SEASON, THE UNITS TO BE EQUIPPED WITH CONTROLS TO AUTOMATICALLY RESTART AND TEMPORARILY OPERATE TO MAINTAIN A TEMPERATURE BELOW 85F.
 - UNITS SHALL BE SEQUENCED TO MAINTAIN SPACE TEMPERATURE AS FOLLOWS:
 - THE LARGEST TONNAGE UNIT, OR AS THE SEQUENCE NUMBER IN THE AIR CONDITIONING UNIT SCHEDULE INDICATES, SHALL RUN TO MAINTAIN THE SPACE SETBACK TEMPERATURE.
 - IF THE SPACE TEMPERATURE IS MEASURED AS 30F ABOVE THE COOLING OR 30F 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 20F BELOW THE SETBACK TEMPERATURE IN COOLING MODE OR ABOVE SETBACK TEMPERATURE IN HEATING MODE, THE SECOND UNIT SHALL TURN OFF.
- AIR CONDITIONING UNIT MANUAL OVERRIDE MODE:
 - VENTILATION AND ECONOMIZER DAMPERS BECOME POSITIONED AT THE MINIMUM OA SETTING.
 - THERMOSTAT SENDS SIGNAL TO UNIT TO OPERATE IN NORMAL MODE.
 - MANUAL OVERRIDE TIMER TO BE SET FOR A PERIOD OF 2 HOURS (ADJ.).
- SMOKE DETECTORS
 - IF A FIRE ALARM SYSTEM IS PRESENT IN THE BUILDING, SMOKE DETECTORS TO NOTIFY FIRE ALARM SYSTEM IN THE EVENT OF SMOKE BEING DETECTED.
- NON-EMERGENCY OPERATION:
 - THERMOSTATS, COMPRESSOR AND FANS RUN AS NORMAL.
- SMOKE DETECTED IN SUPPLY OR RETURN:
 - SMOKE DETECTOR GENERATE VISIBLE ALERT SIGNS.
 - SMOKE DETECTOR SENDS SIGNAL TO HVAC SYSTEM TO SHUT OFF.
 - AIR CONDITIONING AND MAKE-UP AIR UNITS TO HAVE FANS AND COMPRESSORS DE-ENERGIZE.

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AS NOTED ON PLANS REVIEW
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LEE'S SUMMIT, MISSOURI

07/16/2021

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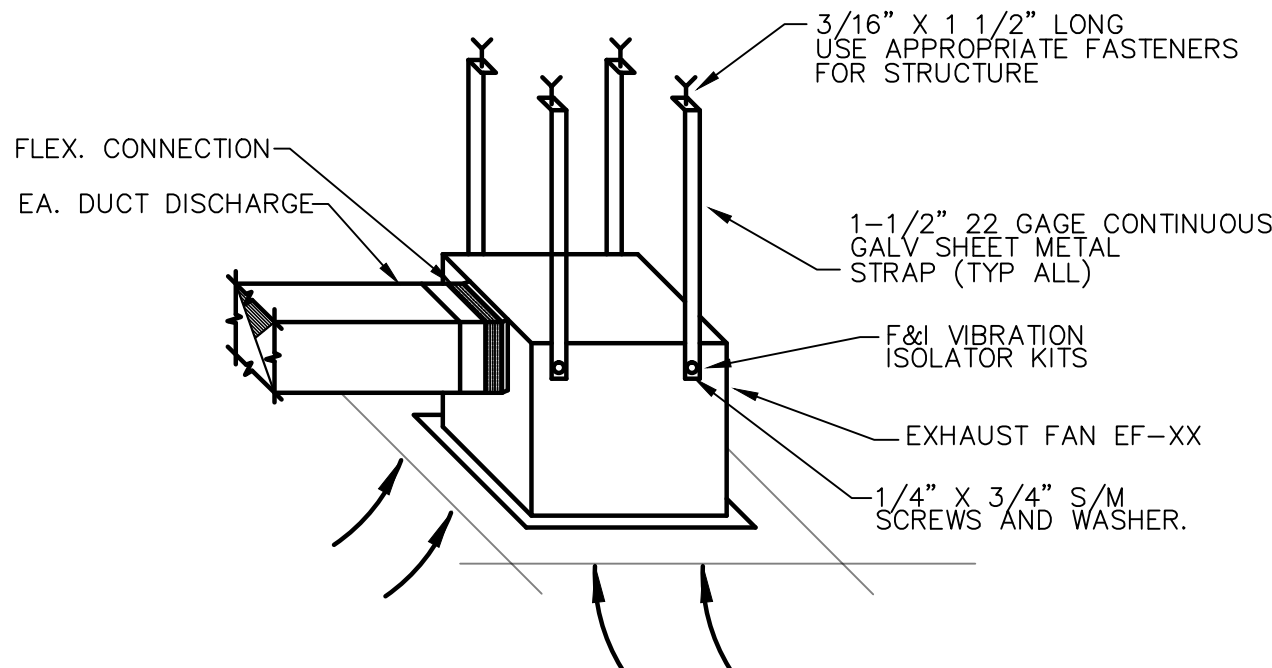
MECHANICAL DETAILS
AND
SEQUENCE OF
OPERATIONS

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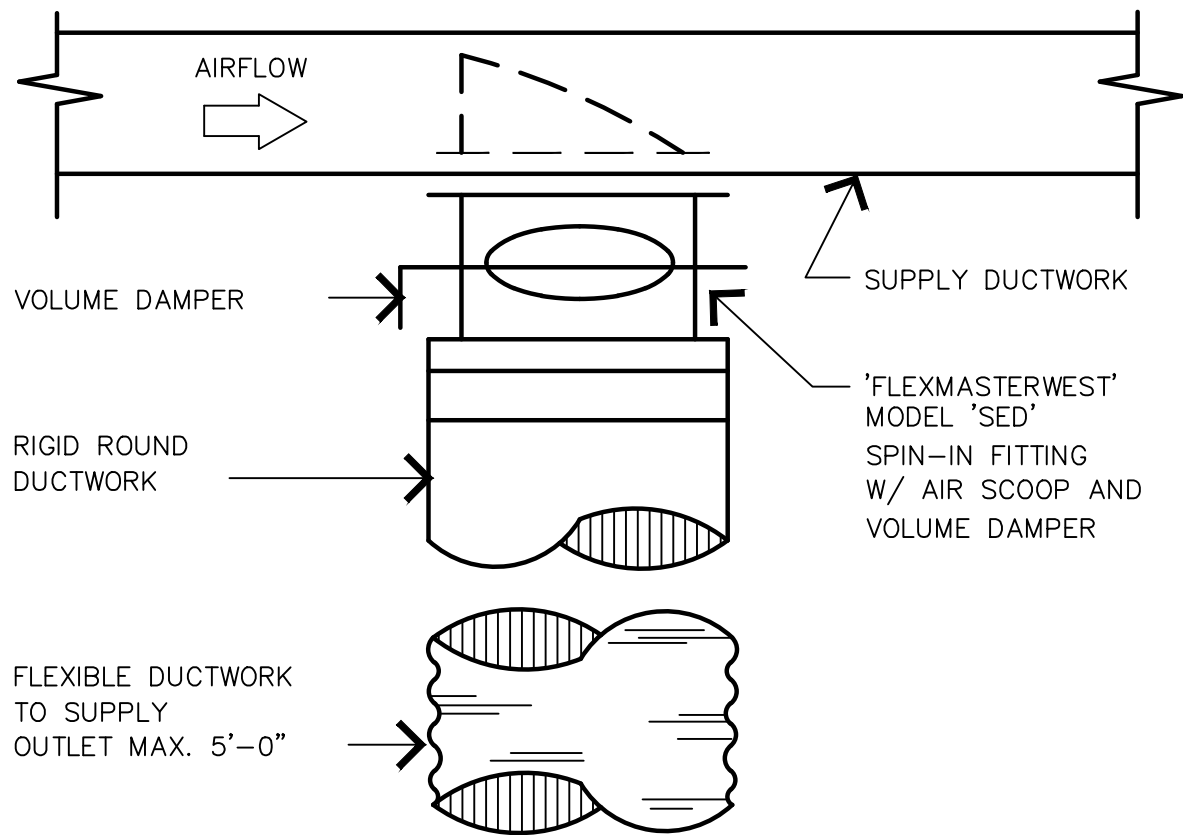
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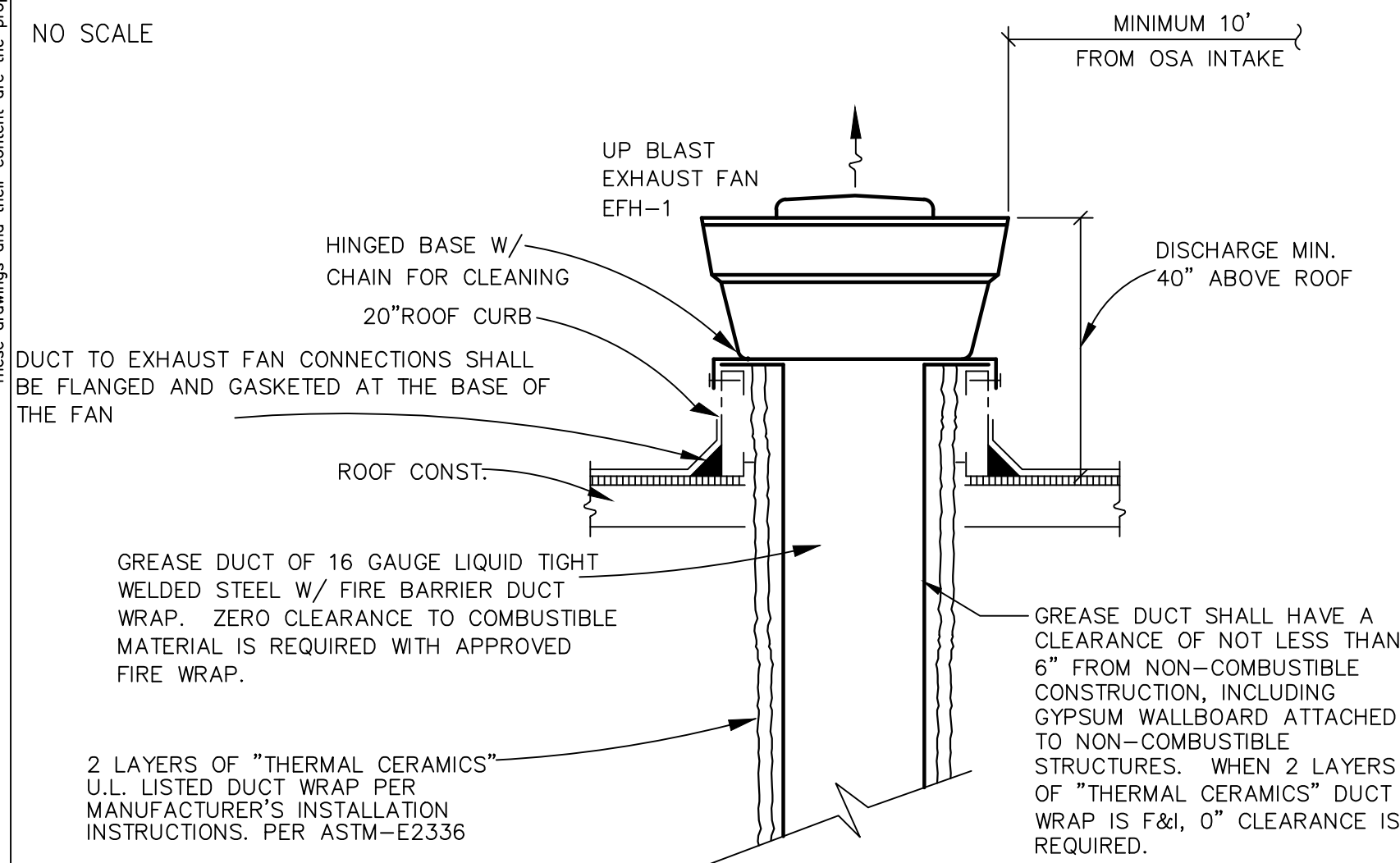


RESTROOM FAN INSTALLATION DETAIL
SCALE: N.T.S



BRANCH DUCT TAKE-OFF DETAIL

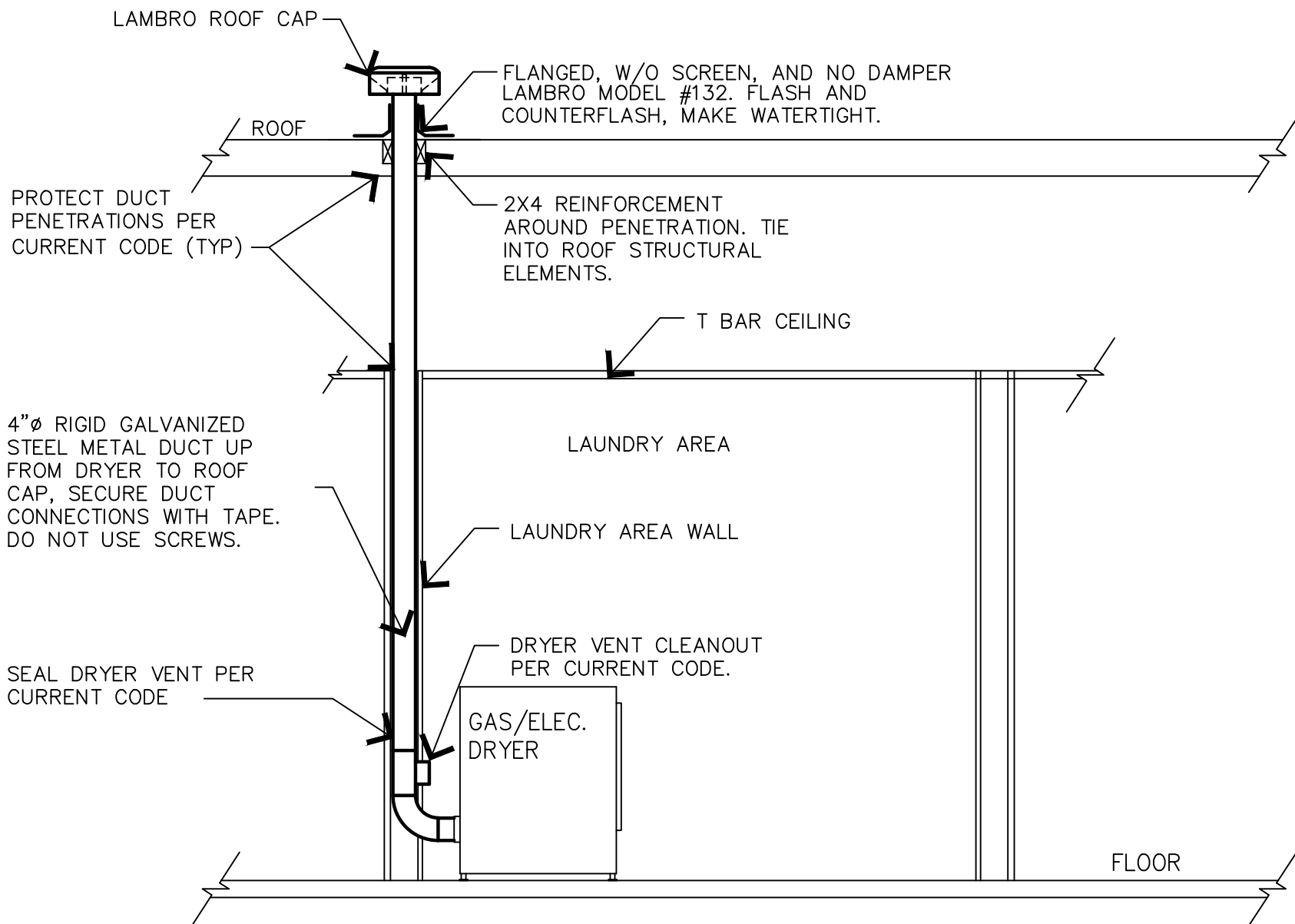
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NOTE:
EXHAUST OUTLETS SHALL BE LOCATED NOT LESS THAN 10 FEET HORIZONTALLY FROM PARTS OF THE SAME OR CONTIGUOUS BUILDINGS, ADJACENT BUILDINGS, ADJACENT PROPERTY LINES AND AIR INTAKE OPENINGS INTO ANY BUILDING AND SHALL BE LOCATED NOT LESS THAN 10 FEET ABOVE THE ADJOINING GRADE LEVEL.

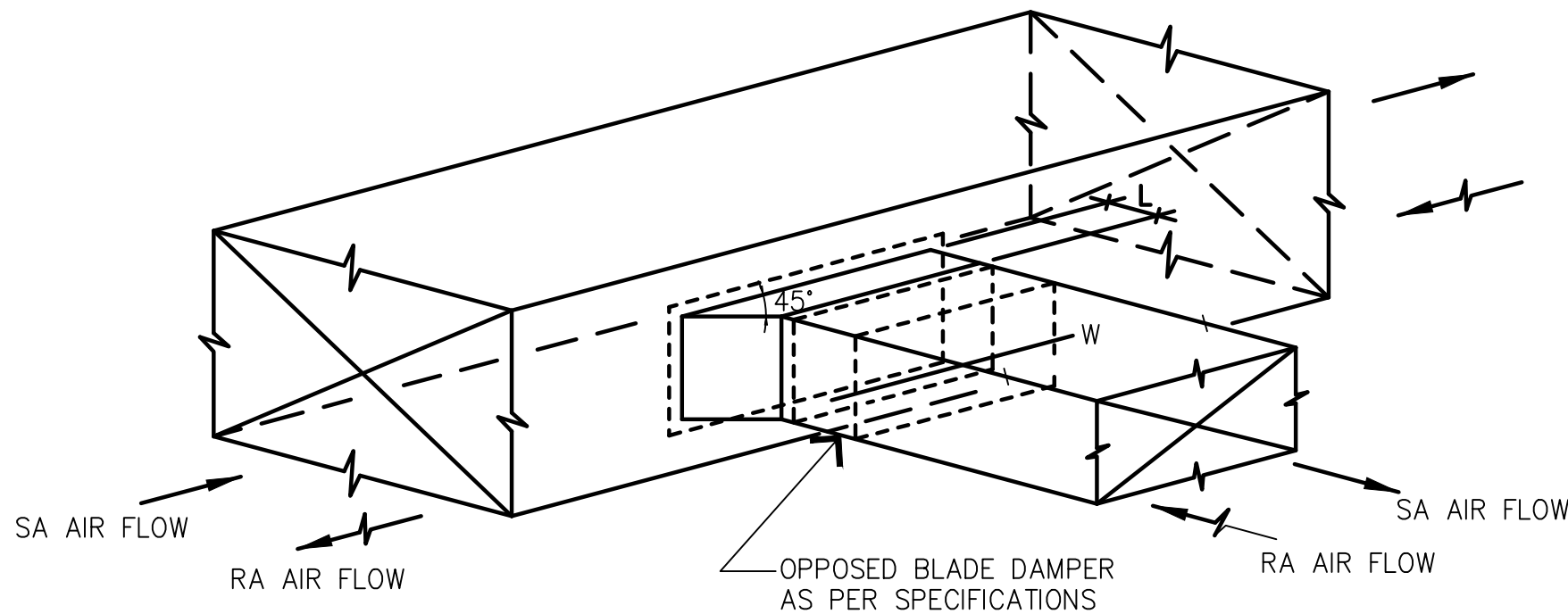
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DRYER VENT DETAIL

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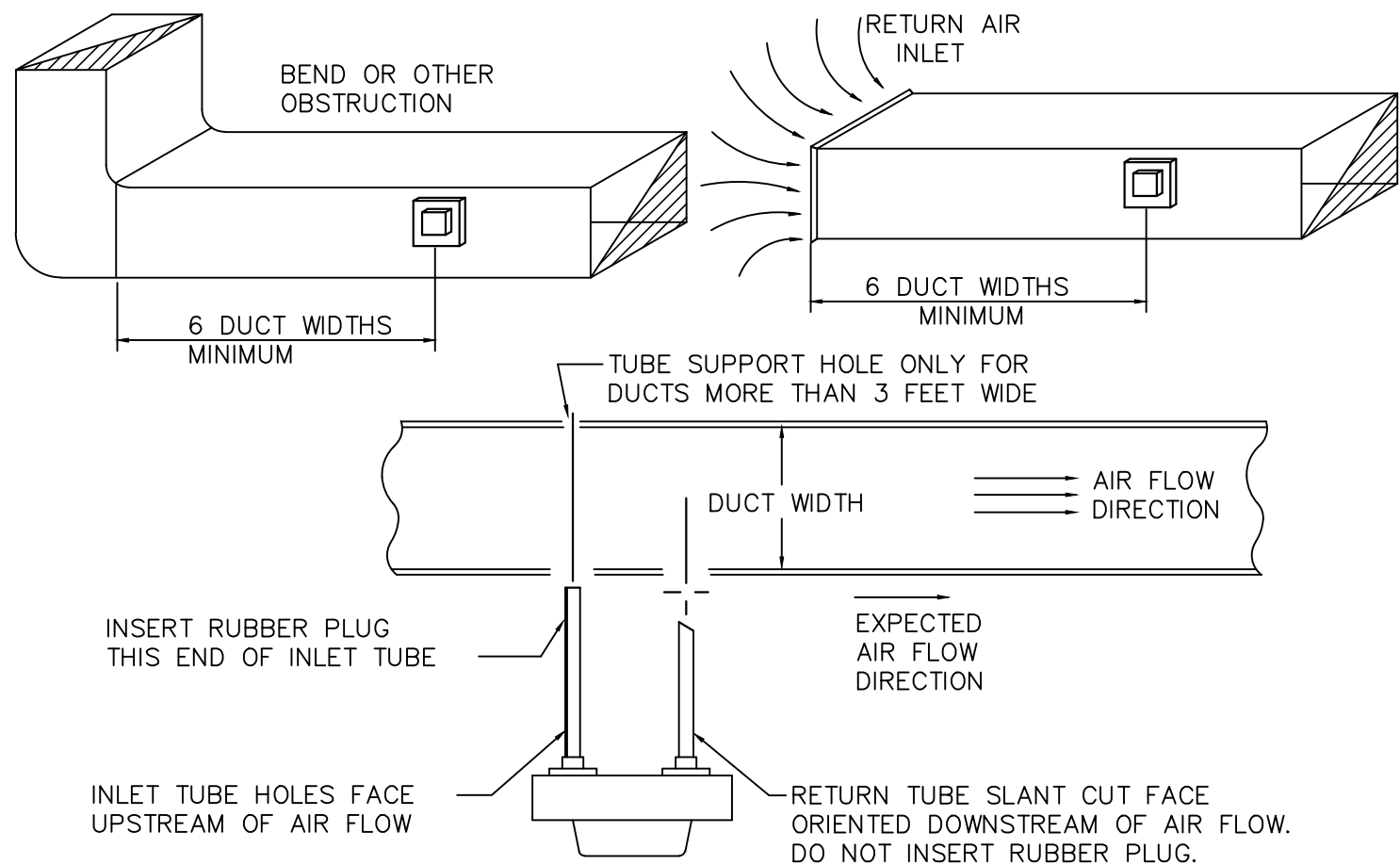


NOTES:

1. L = 1/4 W (4" MIN.)
2. ALL DUCTWORK SHALL CONFORM TO SMACNA DUCT CONSTRUCTION STANDARDS AND UL 181.

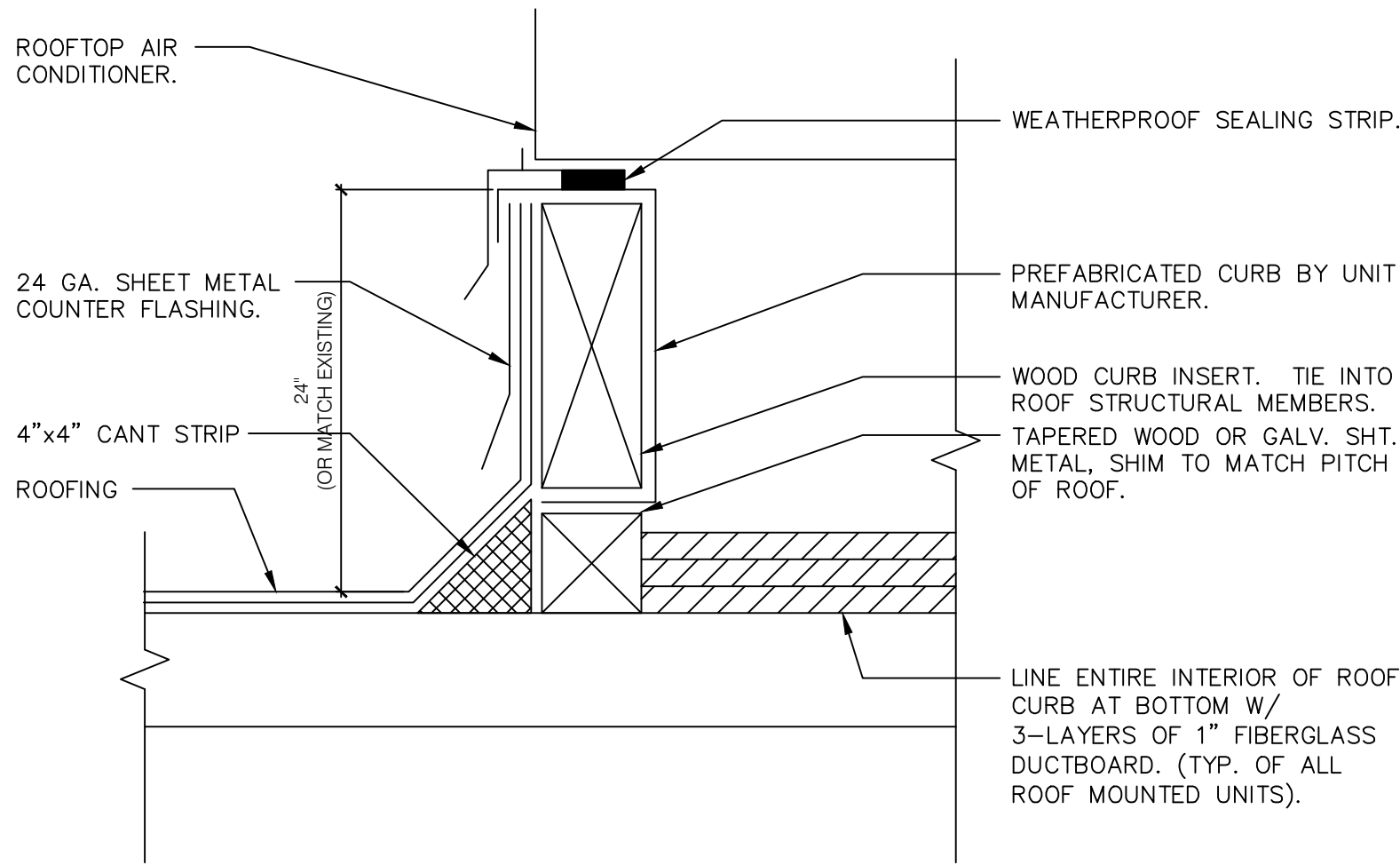
BRANCH DUCT TAKE-OFF & DAMPER DETAIL

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TYPICAL DUCT DETECTOR INSTALLATION

NOT TO SCALE



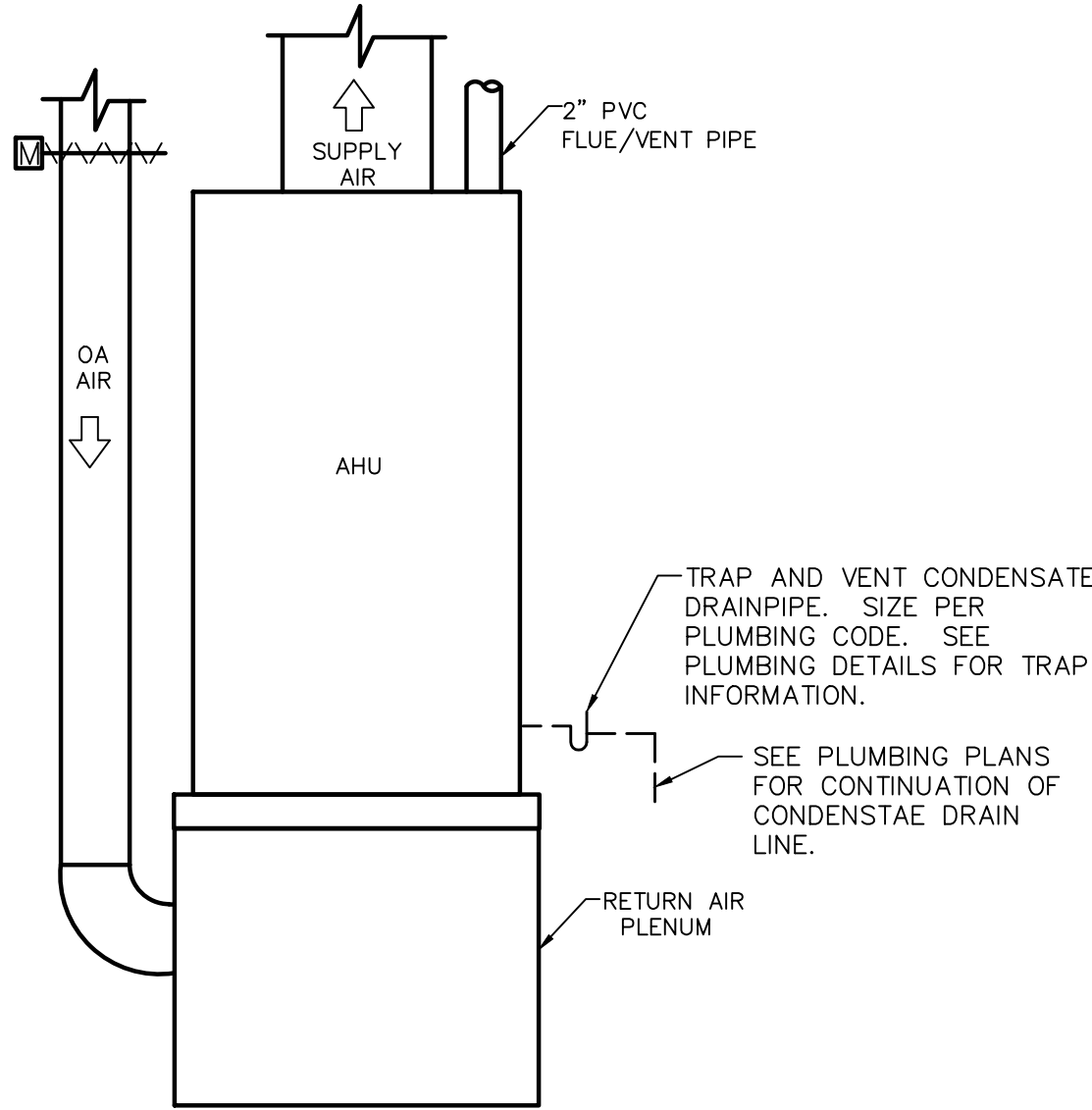
NOTES:

WHERE POSSIBLE ALL ELECTRICAL CONDUIT & DRAIN PIPING SHALL BE ROUTED THROUGH ROOF WITHIN THE CONFINES OF CURB PERIMETER.

APPLIANCES DESIGNED TO BE FIXED IN POSITION SHALL BE SECURELY FASTENED IN PLACE. SUPPORTS FOR APPLIANCES SHALL BE DESIGNED AND CONSTRUCTED TO SUSTAIN VERTICAL AND HORIZONTAL LOADS AS REQUIRED FOR LOCAL SEISMIC ZONE.

CURB INSTALLATION DETAIL

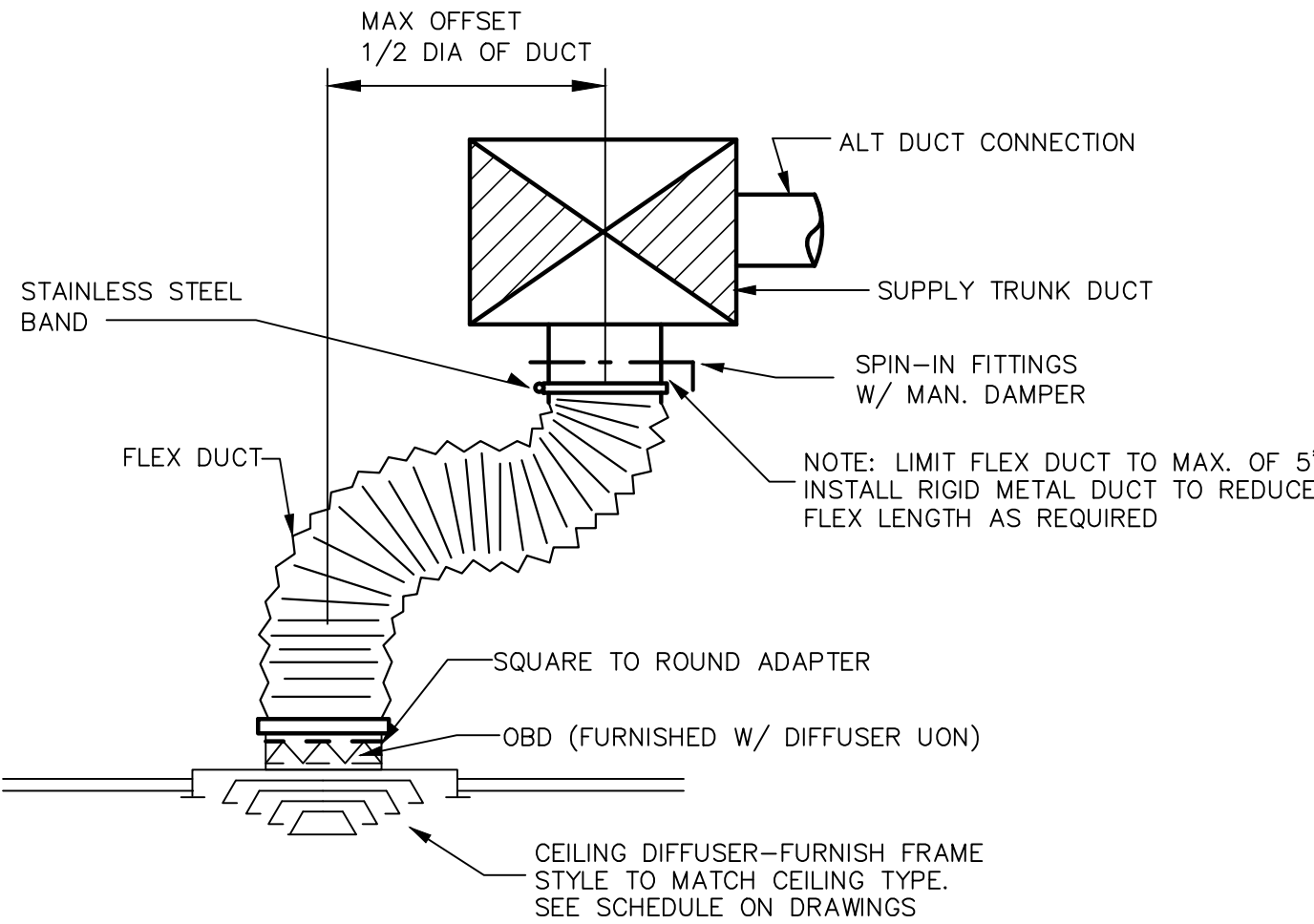
NOT TO SCALE



NOTE:
SIZE AND LOCATION OF FLUE/VENT PIPE CONNECTION VARIES BY MODEL AND MANUFACTURER. REFER TO MANUFACTURER'S INSTRUCTIONS FOR FLUE AND VENTING REQUIREMENTS.

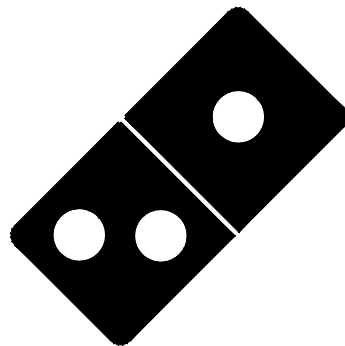
AIR HANDLER DETAIL

NO SCALE



TYP. DUCT CONNECTION

NO SCALE



REV:	DATE:	DESCRIPTION:

SHEET NAME:

MECHANICAL
DETAILS

SHEET NUMBER:

M4.0

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 MANUFACTURERS 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 RELOCATIONS 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 MEANINGS OF THE PERMITS 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 U/L 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 I/O 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, I.G., 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 READY 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 WINDSTOPPER, 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 GAP.

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 MANUFACTURERS 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 WATERIGHT 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 U/L CLASS 1, AND NYLON LINER AND COVER. CONNECTORS TO BE U/L APPROVED. FLEXIBLE DUCTWORK SHALL BE LIMITED TO RUN-OUTS TO DIFFUSERS OF (5) FIVE FT. OR LESS, SUPPORTED WITH STRAP HANGERS.

DUCTWORK INSULATION -
ALL ACOUSTIC LINER TO BE MINIMUM 1.5 PCF DENSITY, WITH NFPA 90A APPROVED LINER OR COATING. THERMAL 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-SKIMMRAFT 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-SKIMMRAFT 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 MANUFACTURERS INSTALLATION INSTRUCTIONS. ALL AIR DUCTS MUST BE INSULATED TO THE FOLLOWING LEVELS:

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, CRAWL SPACES, UNHEATED BASEMENTS AND UNHEATED GARAGES.

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.

C. 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 AND A MINIMUM OF R-12 INSULATION IN CLIMATE ZONES 5 THROUGH 8

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.

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 U.L. 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 U.L. 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 AN DUCTWORK AT 2" W.G. OR LESS. CONSTRUCT PARTITION FORMING PLENUMS OR SLOUGH 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 -
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. 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 MANUFACTURERS 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.

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

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 ABC. 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 MANUFACTURERS 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.

INSTRUCTIONS/ 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 CONDITONING COMPRESSORS. EXISTING HVAC EQUIPMENT, DUCTWORK AND/OR HVAC COMPONENTS REUSED IN THE JOB ARE NOT COVERED UNDER THIS WARRANTY.

MECHANICAL GENERAL NOTES

- 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.
- FURNISH CLEARANCES AS PER MANUFACTURERS RECOMMENDATIONS.
- F&I EQUIPMENT IDENTIFICATION AS TO THE SPACE OR AREA SERVED.
- REFER TO ARCHITECTURAL DRAWINGS FOR ACCESS TO ROOF INSTALLED MECHANICAL EQUIPMENT.
- 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.
- FIELD COORDINATE SIZE AND PLACEMENT OF DRAIN LINES REQUIRED FOR ROOFTOP HEAT PUMPS, EVAPORATIVE COOLERS, FURNACES, HUMIDIFIERS, ETC., WITH PLUMBING CONTRACTOR TO ROUGH-IN.
- F&I VIBRATION ISOLATORS FOR ALL MECHANICAL EQUIPMENT SUPPORTED FROM STRUCTURE.
- NOTIFY GENERAL CONTRACTOR AND/OR ARCHITECT OF ANY DISCREPANCIES PRIOR TO ROUGH-IN.
- ALL HVAC EQUIPMENT, INCLUDING EVAPORATIVE COOLERS, SHALL BE U.L. ETL AND/OR AGA LISTED.
- F&I ALL EXHAUST AIR DUCTS WITH BACKDRAFT DAMPER.
- F&I AN ELECTRICAL INTERLOCK FOR MAKE-UP AIR UNITS AND ASSOCIATED EXHAUST FANS AS REQUIRED. SEE SCHEDULES.
- KITCHEN HOOD AND EXHAUST DUCTWORK TO CONFORM TO NFPA-96 STANDARDS AND THE CURRENT MECHANICAL CODE FOR DOMESTIC AND SECTION 506 FOR COMMERCIAL KITCHENS.
- SLOPE ALL HORIZONTAL EXHAUST DUCTS AT 1/4" PER FOOT TOWARDS HOOD INTAKE.
- F&I CLEAN-OUT ACCESS PANELS AS SHOWN HAVING A FIRE RESISTIVE RATING EQUAL TO SHAFT ENCLOSURE.
- EXTERNAL WELD ALL JOINTS AND SEAMS OF ALL KITCHEN EXHAUST DUCTS.
- MECHANICAL CONTRACTOR TO COORDINATE EXACT KITCHEN HOOD OPENINGS WITH KITCHEN CONTRACTOR PRIOR TO ANY CONSTRUCTION.
- 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.
- FLUE AND COMBUSTION AIR DUCTS PENETRATING ROOF STRUCTURE SHALL BE ENCLOSED IN ONE-HOUR SHAFT.
- ALL TEMPERATURE CONTROLS ARE TO BE TESTED, ADJUSTED AND CALIBRATED FOR PROPER OPERATION.
- 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.
- INSTALL CLEANOUTS AT EVERY 90DEGREES TURN ON AIR CONDITIONING CONDENSATE DRAIN LINES.
- 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.
- ALL GAS VENTS SHALL BE U.L. LISTED TYPE 'B' DOUBLE WALL AS MANUFACTURED BY "METALBESTOS" OR EQUIVALENT.
- COMBUSTION AIR DUCT OPENINGS TO BE COVERED WITH CORROSIVE RESISTANT SCREEN OF 1/4" MESH.
- 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.
- 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.
- 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.
- COORDINATE OPENINGS FOR GRILLES, REGISTERS, DIFFUSERS, AND DUCTWORK WITH FRAMING CONTRACTOR PRIOR TO ROUGH-IN.
- F&I RADIUS ELBOWS, TURNING VANES, AND SPLITTER DAMPERS IN BRANCHES AND EXTRACTORS WHERE APPLICABLE. TURNING VANES SHALL BE INSTALLED IN ALL MITERED ELBOWS.
- INSULATE FIRST TEN FEET (10) OF DUCTWORK WITH 1" THICK INTERNAL ACOUSTICAL INSULATION. INSULATE ALL SUPPLY AND RETURN AIR DUCTS. EXTERIOR DUCTWORK AND OTHER DUCTWORK NOT WITHIN THE ENVELOPE OF THE AIR CONDITIONED SPACE.
- ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH ASHRAE AND SMACNA STANDARDS AND THE CURRENT MECHANICAL CODE. CONFORMANCE WITH LOCAL BUILDING AND MECHANICAL CODES. WHERE MORE THAN ONE REGULATION OR CODE APPLIES, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
- 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.
- TAPE ALL DUCT JOINTS WITH CANVAS AND ARABOL ADHESIVE.
- 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.
- ALL DUCT DIMENSIONS SHOWN ARE CLEAR DIMENSIONS INSIDE DUCT LINER.
- 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.
- IF ABOVE CEILING DUCTWORK IS FABRICATED OF SHEET METAL, HANGERS SHALL BE INSTALLED AS REQUIRED BY THE CURRENT MECHANICAL CODE.
- MECHANICAL CONTRACTOR TO VERIFY THAT ALL DUCTWORK WILL FIT WHERE INDICATED WITHOUT INTERFERENCES.
- 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.
- EXHAUST DUCTS SHALL BE 26 GAUGE GALVANIZED STEEL. SEE MECHANICAL EQUIPMENT SCHEDULE OR FLOOR PLAN FOR SIZES AND TERMINATION POINT.
- ALL "FACTORY MADE" DUCTS MUST BE CLASS "O" OR CLASS "1".
- AIR CONDITIONING UNITS SERVING EVAPORATIVE COOLERS/MAKE-UP AIR UNITS SHALL BE FABRICATED FROM ALUMINUM SHEETS AND HAVE NO DUCT LINER.
- ALL PENETRATIONS THROUGH DRAFT-STOPS TO BE SEALED.
- 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.
- 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.
- 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.
- 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.
- INSTALL A COMPLETE AND WORKING MECHANICAL SYSTEM IN STRICT ACCORDANCE WITH THE CURRENT MECHANICAL CODE AND SMACNA STANDARDS.
- COORDINATE EXACT LOCATION OF MECHANICAL EQUIPMENT, AIR DEVICES, PIPING, DUCTWORK, ETC., WITH PLUMBING, ELECTRICAL, STRUCTURAL, ARCHITECTURAL AND GENERAL CONTRACTORS DRAWINGS.
- WORKMANSHIP: ALL EQUIPMENT APPURTENANCES, DEVICES AND PIPING SHALL BE INSTALLED IN CONFORMANCE WITH THE PROVISIONS AND INTENT OF THE CURRENT MECHANICAL CODE.
- 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.
- 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.

- CONTRACTOR MAY, AT HIS DISCRETION, REUSE ANY/ALL EXISTING EQUIPMENT NOT SPECIFICALLY NOTED TO BE REMOVED OR ABANDONED AS LONG AS ANY EQUIPMENT SATISFACTORILY MEETS THE DESIGN REQUIREMENTS SET FORTH IN THESE DOCUMENTS.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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 ARCHTTECT SHALL BE PROMPTLY NOTIFIED AND HIS/HER DECISION SHALL BE FINAL.
- CONTRACTOR IS TO MAKE ARRANGEMENTS WITH ANY EXISTING TENANTS PRIOR TO CONSTRUCTION FOR ALLOWABLE CONSTRUCTION TIMES WITHIN THEIR SPACE.
- 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.
- MANUFACTURERS AND MODEL NUMBERS LISTED ARE INTENDED TO ESTABLISH A MINIMUM QUALITY AND PERFORMANCE LEVEL. SUBSTITUTIONS WILL BE EVALUATED UPON REQUEST.
- 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.
- 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.
- HVAC SYSTEM SHOWN IS BASED ON PREVIOUS T.I. DRAWINGS AND NOT ACTUAL FIELD MEASUREMENTS OR AS-BUILT DRAWINGS.
- REMOVE ALL EXISTING HVAC DUCTWORK AND DIFFUSERS AND REPLACE WITH NEW AS SHOWN AND AS REQUIRED.

RELEASE FOR
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI

07/16/2021

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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 Management LLC dba Domino's
3901 Blue Ridge Cutoff
Kansas City, MO 64133

816.501.8388

ISSUED FOR PERMIT:
04.22.2021

MECHANICAL
GENERAL NOTES AND
SPECIFICATIONS

SHEET NUMBER:
M6.0

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REV:	DATE:	DESCRIPTION:

SHEET NAME:

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PLUMBING LEGEND			
SYMBOL		ABBREVIATION	DESCRIPTION
EXISTING	NEW		
		ACD	AIR CONDITIONING CONDENSATE DRAIN
		CW	COLD WATER
		DHW	DOMESTIC HOT WATER (110°F)
		DHW (140)	DOMESTIC HOT WATER (140°F)
		DHWR	DOMESTIC HOT WATER RETURN
		G	NATURAL OR LIQUIFIED PETROLEUM GAS
		S	SANITARY
		S	SANITARY BELOW FLOOR/GRADE
		ST	STORM DRAIN
		V	VENT LINE

SYMBOL	ABBREVIATION	DESCRIPTION
	POC	POINT OF CONNECT TO EXISTING
	UP / DOWN	PIPE UP / DOWN
	FS	FLOOR SINK
	FD	FLOOR DRAIN
		FIXTURE TRAP W/ VENT CONN.
	HB / WHT	HOSE BIBB / WALL HYDRANT
	SOV / BV / GV	SHUT-OFF, BALL OR GATE VALVE
	SOV	SHUT-OFF VALVE IN VALVE BOX
	WM	WATER METER IN BOX
	VTR	VENT THRU ROOF
	CO / FCO / GCO	CLEANOUT / FLOOR / GRADE
	CO / FCO / GCO	2-WAY CLEANOUT / FLOOR / GRADE
	WCO	WALL CLEANOUT
	POP	PUMP OUT PORT
		PIPE TRANSITION
		FLOW DIRECTION

GENERAL NOTES:

- ALL PLUMBING FIXTURES SHALL BE LABELED AS MEETING EPA WATER SENSE (WWW.EPA.GOV/WATERSENSE).
- LOCATION OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.
- 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.
- CONTRACTOR SHALL VERIFY AND COORDINATE LOCATION OF ALL PLUMBING LINES WITH DUCTWORK AND ELECTRICAL SERVICES.
- 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.
- WHERE POSSIBLE, COMBINE PLUMBING VENTS TOGETHER SO AS TO MAKE THE MINIMUM NUMBER OF ROOF PENETRATIONS.
- WATER CLOSETS IN PUBLIC TOILET ROOMS SHALL CENTER ON THE FINAL LAYOUT OF TOILET PARTITIONS AND BE INSTALLED AS INDICATED IN THE ARCHITECTURAL DRAWINGS.
- ALL FLUE VENTS AND VTRS THROUGH ROOF SHALL BE A MINIMUM OF 10' FROM ALL AIR INTAKES AND EVAP. COOLERS.
- CONTRACTOR SHALL NOT CUT HOLES IN STRUCTURAL MEMBERS WITHOUT FIRST SECURING WRITTEN APPROVAL FROM ARCHITECT.
- CONTRACTOR SHALL INSTALL DIELECTRIC UNIONS AT CONNECTION OF DISSIMILAR METALS.
- 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.
- COPPER POTABLE WATER PIPING VELOCITY: FOR PIPE SIZES < 2½" PIPE VELOCITY SHALL NOT TO EXCEED 6 FPS.
- 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.
- FLASHED AND COUNTERFLASH ALL VTRS, PIPES AND FLUES THRU ROOF. MAKE PENETRATIONS WATER TIGHT.
- WALL CLEANOUTS MAY BE SUBSTITUTED FOR FLOOR CLEANOUTS AT CONTRACTORS DISCRETION.

FIELD VERIFICATION NOTES:

- 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.
 - PLACEMENT SIZE CAPACITY MANUFACTURER AND CONDITION OF ALL EXISTING PLUMBING EQUIPMENT WITHIN SCOPE OF WORK, WHETHER SPECIFICALLY SHOWN OR NOT.
 - SIZE AND LOCATION OF ALL EXISTING WASTE, GREASE WASTE, VENT, GAS AND WATER PIPING.
- 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.
- NO ALLOWANCES WILL BE MADE AFTER THE PROJECT HAS BEEN AWARDED FOR FAILURE TO VERIFY EXISTING CONDITIONS.
- ANY DISCREPANCIES WHICH MAY AFFECT THE CONTRACTOR BID SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER AND ARCHITECT FOR DIRECTION.
- 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.
- CONTRACTOR SHALL VERIFY INVERT ELEVATION OF SEWERS TO WHICH NEW SANITARY LINES ARE TO BE CONNECTED BEFORE SUBMITTING THE BID.
- 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																								
MARK	MAKE	MODEL NO.	GAS (MBH)		FLOW RATE		EFF (%)	WATER TEMP (°F)			CONNECTION SIZES (IN)						ELECTRICAL					OPER. WEIGHT (LBS)	REMARKS	
			INPUT	OUTPUT	MIN (GPM)	MAX (GPM)		EWT	LWT	STOR	CW	HW	GAS	COND. DRAIN	FLUE	COM B AIR	V/PH/ HZ	NORMAL	STANDBY	FREEZE PROT.	MAX CURRENT			FUSE
WH-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 FORCED AIR COMBUSTION UNIT, 12 V DC TEMPERATURE CONTROLLER, BUILT-IN RECIRCULATION PUMP, MC-91-2US CONTROLLER, 3 WATT ANTI-FROST PROTECTION, IPEX CONCENTRIC 4" VENT KIT. UNIT ACTIVATION FLOW RATE 0.4 GPM. HEATER TO BE CONFIGURED FOR CROSSOVER RECIRCULATION OPERATION.																								
2 BASED UPON AN ENERGY FACTOR FOR NATURAL GAS = 0.95. UNIT TO CONFORM TO DOE 10 CFR PART 430.																								
3 USE FEMALE UNTHREADED, SOCKETED ENDS, LONG TURN (SWEEP) ELBOWS FOR ALL CHANGES IN FLUE PIPE & COMBUSTION AIR PIPE DIRECTION CHANGES. F&I WITH FACTORY CONDENSATE NEUTRALIZER SIZED FOR UNIT.																								
4 USE UBBINK POLUPROPYLENE CONCENTRIC VENT , TWIN PIPE PVC / CPVC PIPING SYSTEM OR CENTROTERM POLUPROPYLENE TWIN PIPE ADAPTOR KIT.																								

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

PLUMBING FIXTURES SCHEDULE									
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 x 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 AMERICAN STANDARD 4298.152 FAUCET W/AERATOR, ECONOMY SPRAYER, WALL BRACKET & ADD-ON FAUCET	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.	¾"	¾"	2"	1½"	
MOP SINK	MS-1	MUSTEE 63P	ROUGH CHROME FINISHED FAUCET W/WALL BRACKET AND 30 INCH HOSE.	F&I W/VACUUM BREAKER, ¾" HOSE CONNECTION ON SPOUT/OUTLET AND MOP HANGER. SEE NOTE 2	¾"	¾"	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.	½"	½"	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.	½"	---	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	SEE NOTES 1, 2, 3 & 4.	½"	½"	1¼"	1¼"	
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 ½" SWEAT VALVES. STANDPIPE TO BE A MAXIMUM OF 30".	¾"	¾"	2"	1½"	
NOTES:									
1. F&I W/ ½" WATTS LFMMV--**--M1 TEMPERATURE MIXING VALVE SET AT 110°F OUTPUT.									
2. SHUT-OFF VALVES ON UPSTREAM SIDE OF CW & DHW LINES ABOVE CEILING.									
3. BRASS CRAFT SC4R19-Z LOOSE KEY ANGLE STOPS W/FLEXIBLE SUPPLIES; Z8700 P-TRAP & Z8746-PC GRID STRAINER.									
4. Z8946-3-NT ADA TRAP AND ARM W/CLEANOUT AND ESCUTCHEON; AND STOP & SUPPLY PROTECTORS FOR OFFSET GRID STRAINER.									
5. 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.									
6. MODEL P2400X GREEN DRAIN WATERLESS TRAP SEAL.									
7. WITH ACID RESISTANT BODY; NICKEL BRONZE DOME STRAINER; CLAMPING COLLAR;AND NON-TILT LOOSE GRATE WITH 1/2" SQUARE OPENINGS. ½ OR 3/4 GRATE AS REQUIRED BY SIZE AND NUMBER OF PIPES DISCHARGING TO UNIT.									

WATER PRESSURE CALCULATION	
ASSUMED AVAILABLE STATIC PRESSURE	65.0 PSI
PRESSURE DROP THRU METER	6.0 PSI
PRESSURE DROP @ BACKFLOW PREVENTER	10.0 PSI
AVAILABLE PRESS. ON HOUSE SIDE OF METER	49.0 PSI
ESTIMATED PIPE LENGTH - METER TO BLDG WALL	150 FT
EQUIV. LENGTH - METER TO BUILDING WALL	165 FT
P.D. - METER TO BUILDING WALL @ 6 PSIG/100 FT	9.9 PSI
PRESSURE AVAILABLE AT BUILDING WALL	39.1 PSI
PSI REQ. AT END OF THE LINE	20.0 PSI
PRESS. DROP @ THROUGH WATER HEATER	3.0 PSI
PRESS. DROP DUE TO PIPE ELEVATION CHANGES	4.3 PSI
REMAINING PRESSURE	11.8 PSI
SYSTEM LENGTH	82 FT
EQUIVALENT PIPE LENGTH	135 FT
ALLOWABLE LOSS/100FT OF PIPE: REMAINING PRESS. X 100FT EQ. LENGTH OF PIPE	8.70 PSI

FIXTURE UNITS DOMESTIC WATER									
FIXTURES	AMNT.	INDIVIDUAL FIXTURE UNITS				CUMMULATIVE FIXTURE UNITS			
		TOT CW	CW PER FIXT	DHW PER FIXT	CW MAIN	CW	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		
TOTAL					18.00	14.00	12.00		
GPM					18.8	17.0	16.0		
NOTES AND FIELD CONDITIONS:									
1. CONTRACTOR TO FIELD VERIFY SIZE AND LOCATION OF (E) CW PIPE TO BE AS INDICATED THESE DRAWINGS.									
2. 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.									
3. CONTRACTOR SHALL VERIFY ACTUAL WATER PRESSURE AND PIPE LENGTHS PRIOR TO CONSTRUCTION. IF PRESSURE IS LESS THAN OR ACTUAL PIPE LENGTH IS MORE THAN LISTED ABOVE, CONTRACTOR SHALL CONTACT THE ENGINEER FOR PIPE SIZING EVALUATION. IF PRESSURE EXCEEDS 80 PSI, F&I A PRESSURE REDUCING VALVE.									
POTABLE WATER PIPE SIZING									
		PIPE SIZE (IN)	FLUSH TANK F.U.	FLUSH VALVE F.U.	FLOW (GPM)				
		½	1.2	--	3.3				
		¾	4.9	--	9.3				
		1	12	--	16				
		1¼	29	8	23				
		1½	60	16	32				
		2	250	180	58				

RELEASE FOR CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
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816.501.8388

ISSUED FOR PERMIT:
04.22.2021

REV: DATE: DESCRIPTION:

SHEET NAME:

PLUMBING LEGEND,
CALCULATIONS
AND SCHEDULES

SHEET NUMBER:
P1.0

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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 CONSIDERED AS NEW TO BE FURNISHED AND INSTALLED (F&I) AS THUS.

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

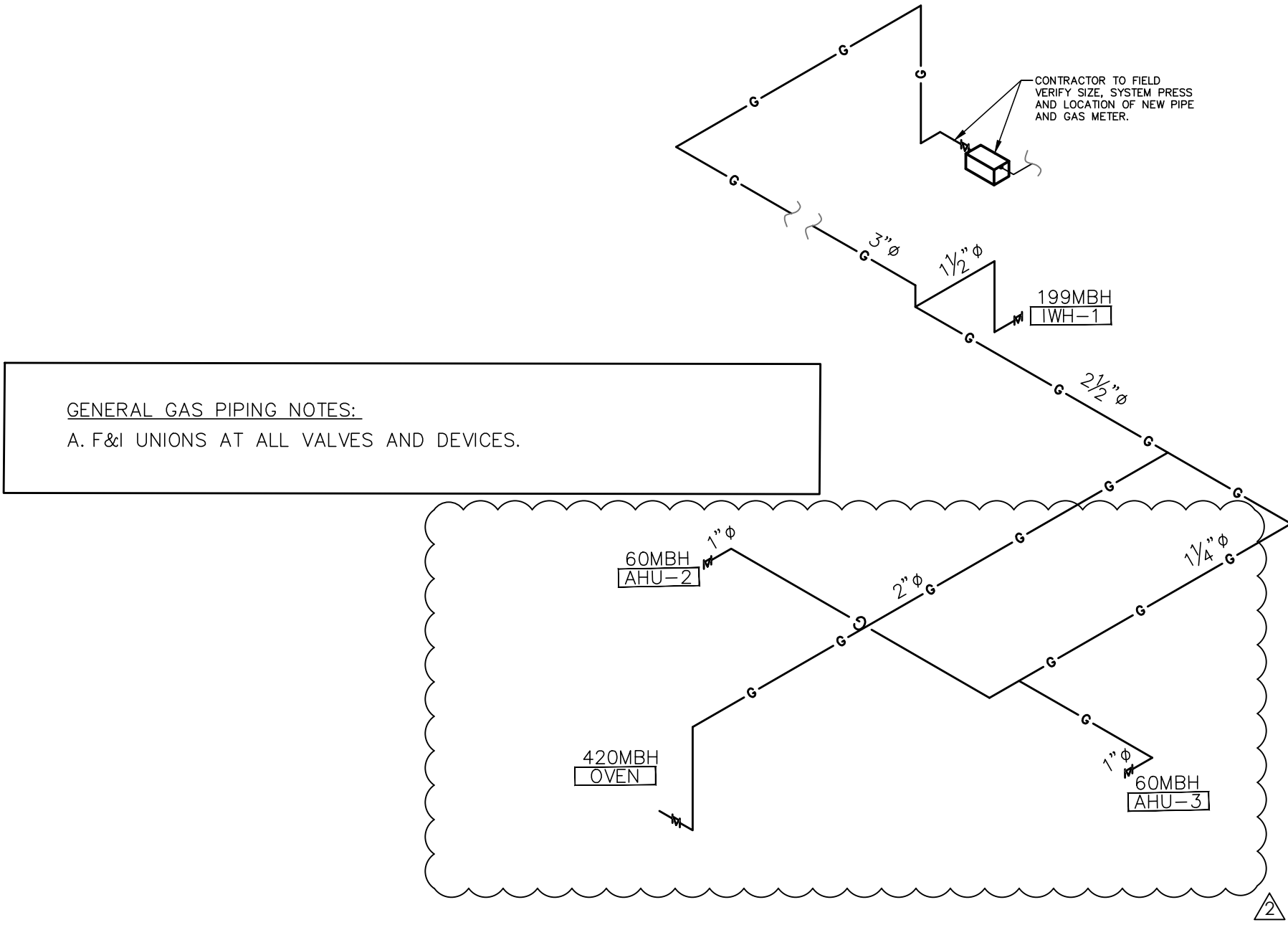
FOR PIPE SIZES NOT INDICATED, SEE PLUMBING FIXTURE SCHEDULE ON P1.0.

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

LOW PRESSURE NATURAL GAS CALCULATION

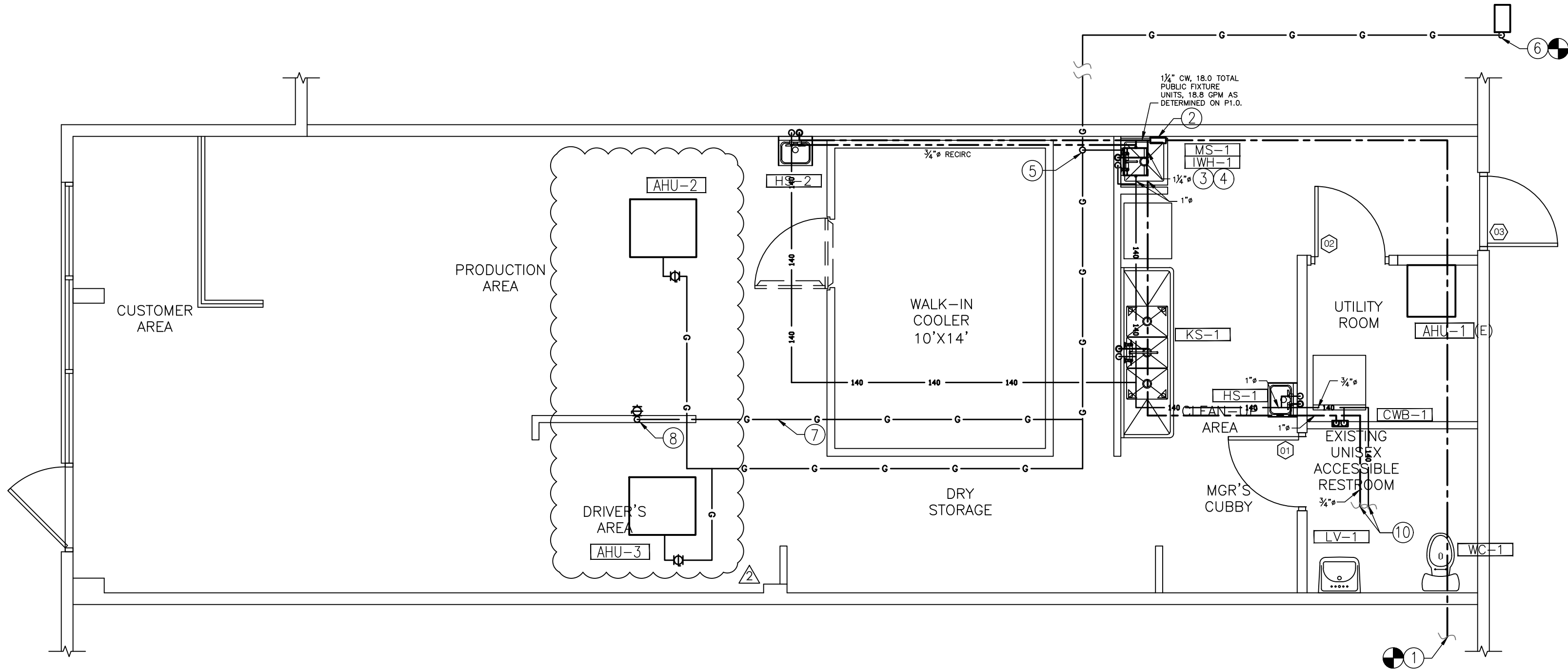
APPLIANCES	PIPE LENGTH (FT)	DEMAND (MBH)
WH-1		199
OVEN		420
AHU-2		60
AHU-3		60
TOTAL		739
PIPE LENGTH FROM DEMISING WALL TO METER/PRV ASSEMBLY	150	
PIPE FITTINGS EQUIV. LENGTH FROM BLDG TO METER/PRV	225	
LENGTH OF PIPE IN TENANT SPACE	58	
EQUIV. LENGTH OF PIPE IN OR ON THE BUILDING	87	
TOTAL EQUIVALENT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

- NOTES:
- 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

NO SCALE



POTABLE WATER & GAS PLUMBING PLAN

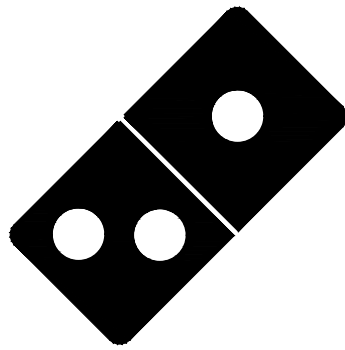
SCALE: 1/4" = 1'-0"

KEYED NOTES:

- 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.
- F&I WATTS LF009 BACKFLOW PREVENTER ABOVE MOP SINK. ROUTE RELIEF PIPE TO DISCHARGE ABOVE TO MOP SINK WITH 1" AIR GAP.
- ALL DHW AND 8 FEET OF CW PIPING CONNECTED TO THE WATER HEATER SHALL BE INSULATED WITH 1" THICK INSULATION. INSULATION TO HAVE AN "R" RATING OF R=4.2 FOR PIPE SIZES < 1 1/4". PIPE SIZES >1" SHALL BE INSULATED WITH 1-1/2" THICK INSULATION HAVING AN "R" RATING NOT LESS THAN R=6.
- SEE MECHANICAL SHEETS FOR VENT & COMBUSTION AIR.
- GAS PIPE UP THRU ROOF. RUN GAS BACK TO GAS METER. SEE GAS PIPING SCHEMATIC DIAGRAM.
- 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.
- OVEN DEDICATED GAS LINE.
- GAS LINE TO DROP DOWN TO OVEN MANIFOLD.
- NOT USED.
- CONNECT WATER LINES TO EXISTING BATHROOM FIXTURES.



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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 Management LLC dba Domino's
3901 Blue Ridge Cutoff
Kansas City, MO 64133

816.501.8388

ISSUED FOR PERMIT:
04.22.2021

REV:	DATE:	DESCRIPTION:
Δ	07.15.21	CITY COMMENTS

SHEET NAME:

POTABLE WATER &
GAS PLUMBING PLAN

SHEET NUMBER:

P2.0

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 CONSIDERED 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.

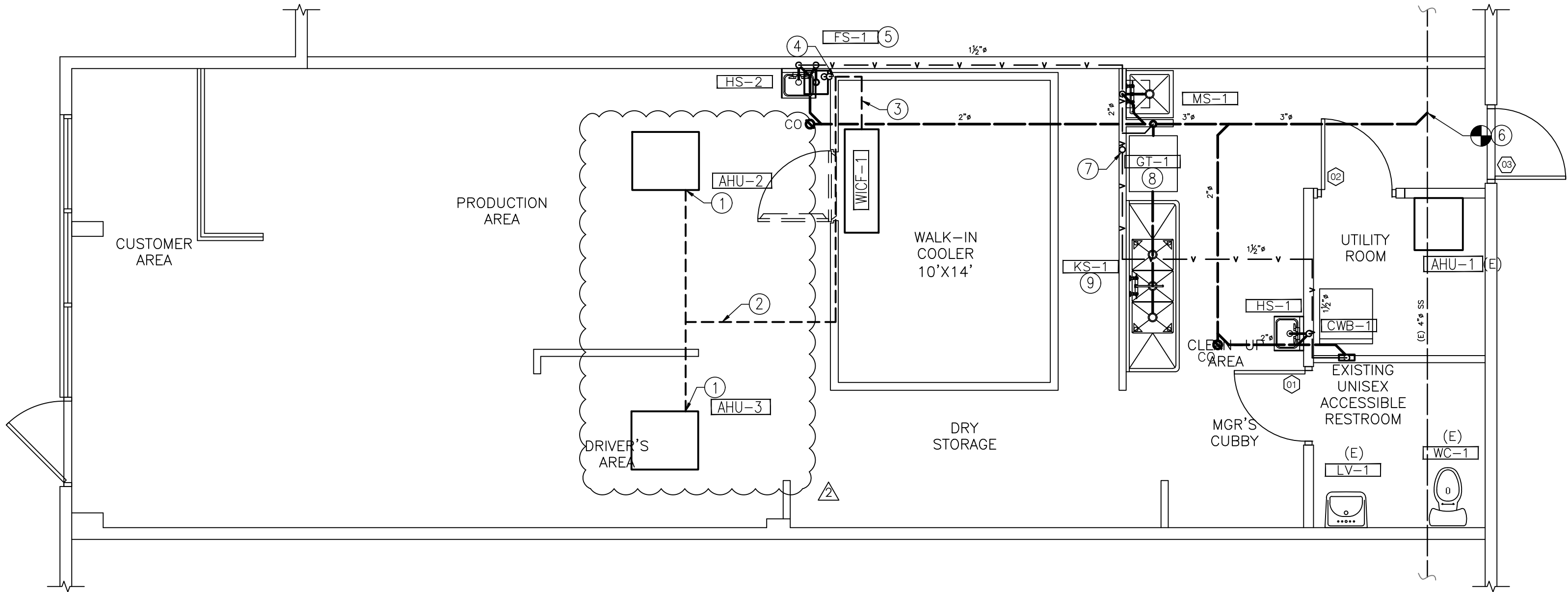
GREASE TRAP SIZING				
FIXTURE CAPACITY	KITCHEN SINK			
	WIDTH	LENGTH	HEIGHT	VOLUME IN ³
	16	21	14	4704
	EFFECTIVE VOLUME (VOL*0.75/231) GALLONS		15.27	
	3-COMPARTMENT VOLUME		45.82	
	2 MINUTE FLOW PERIOD		22.91	
TOTAL FLOW THRU GREASE TRAP			22.91	

SANITARY SEWER FIXTURE UNITS

FIXTURES	AMNT.	CWFU EA.	SUB-TOTAL (CWFU)
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

KEYED NOTES:

1. ACD PIPE DOWN FROM EQUIPMENT.
2. ¾" 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. 2½" 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.



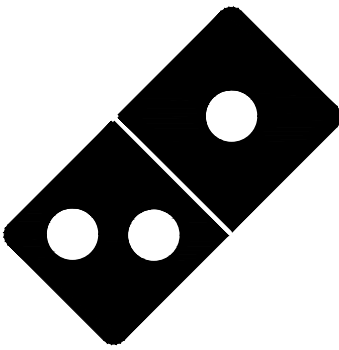
SANITARY SEWER PLUMBING FLOOR PLAN

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

RELEASE FOR
CONSTRUCTION
AS NOTED ON PLANS REVIEW
DEVELOPMENT SERVICES
LEE'S SUMMIT, MISSOURI
07/16/2021



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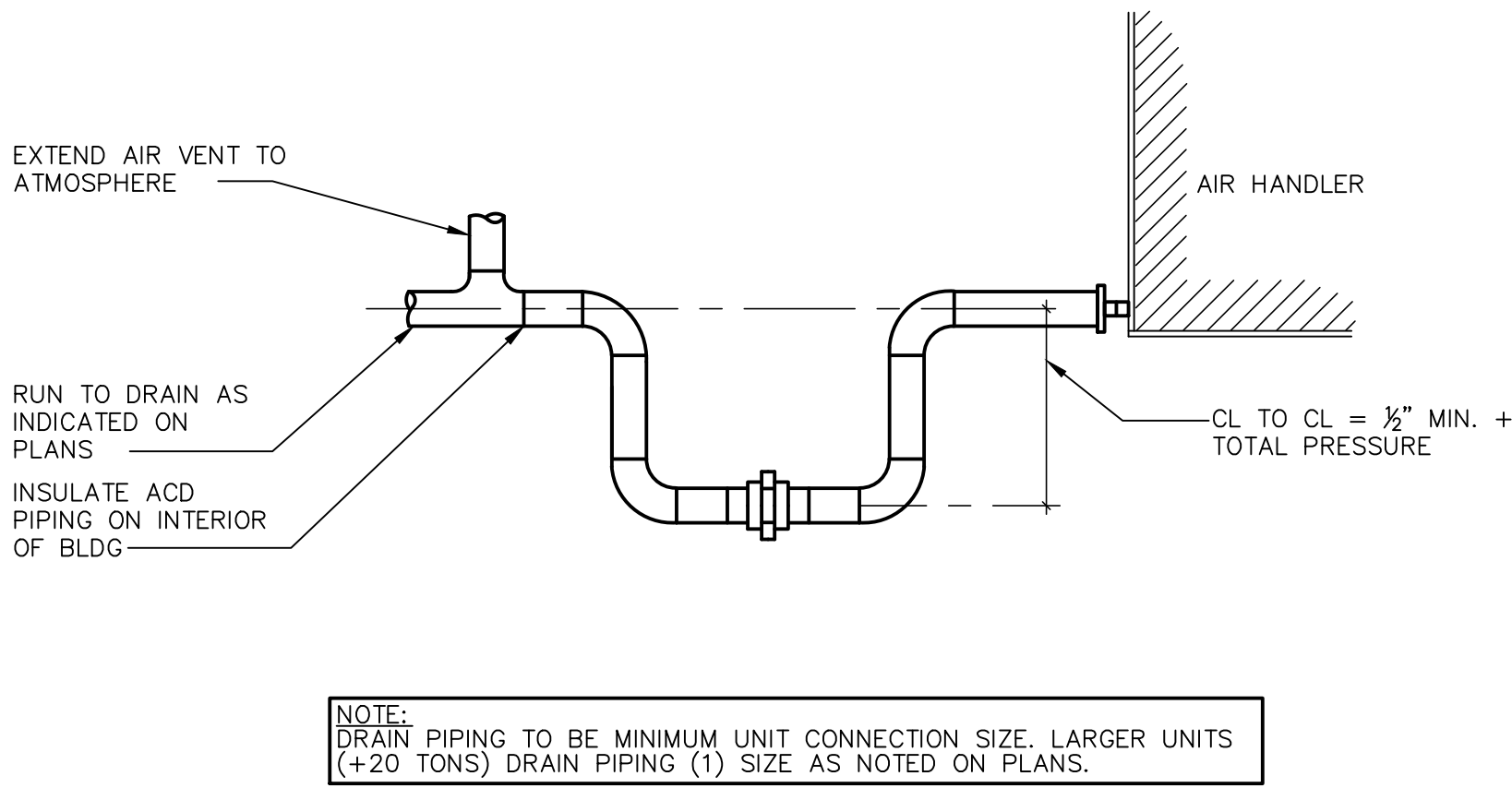
SANITARY SEWER
PLUMBING PLAN

SHEET NUMBER:

P2.1

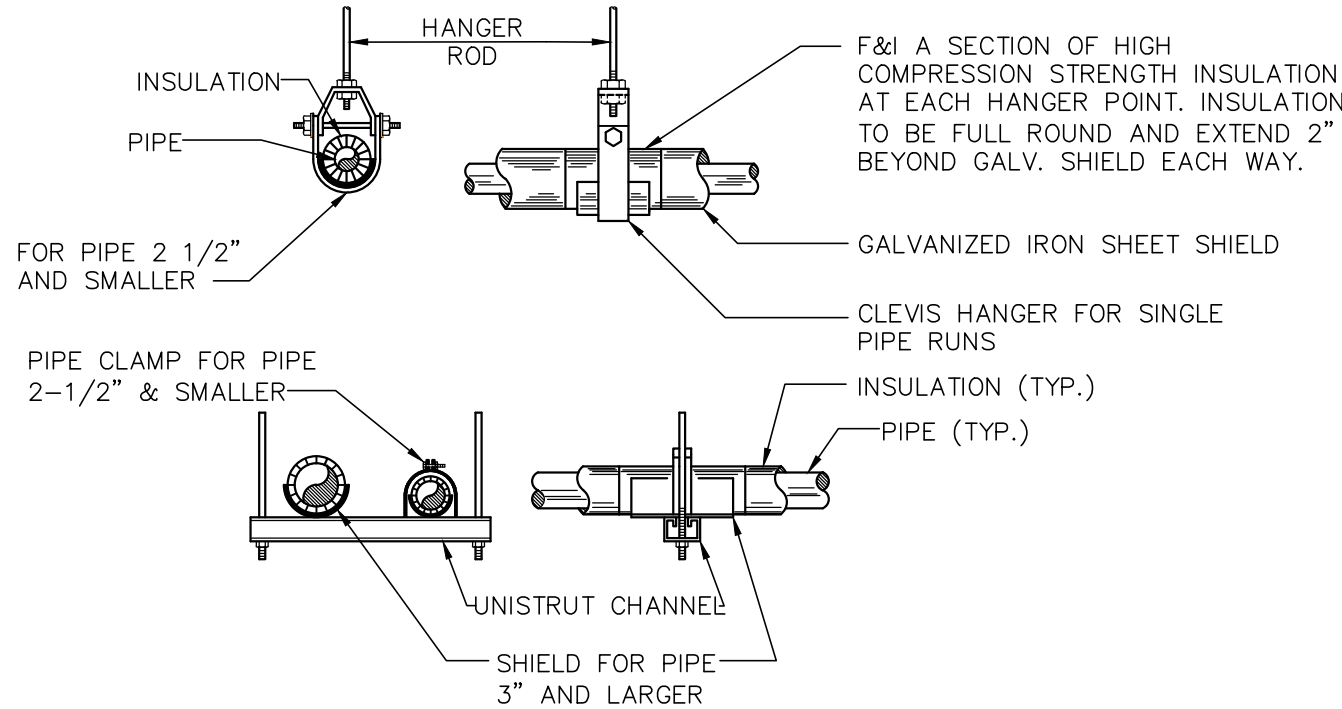
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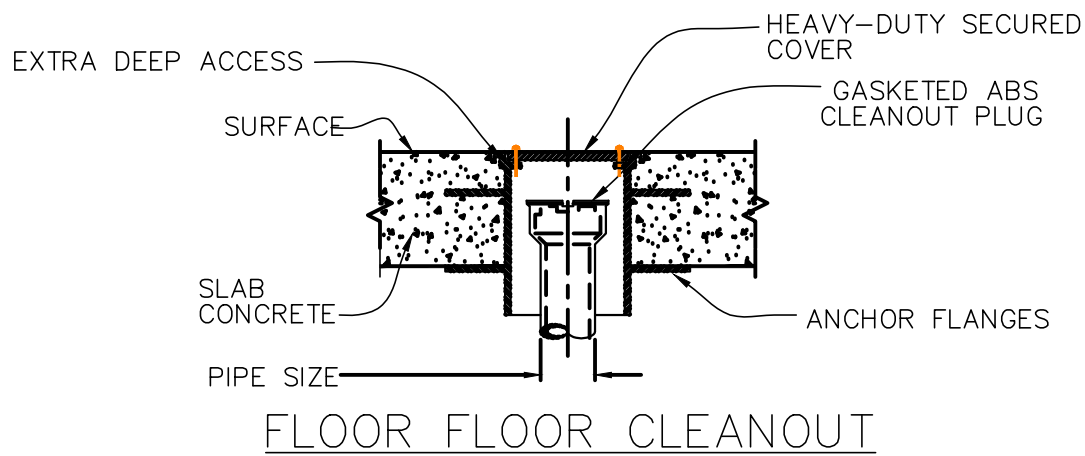
CONDENSATE TRAP DETAIL

NO SCALE

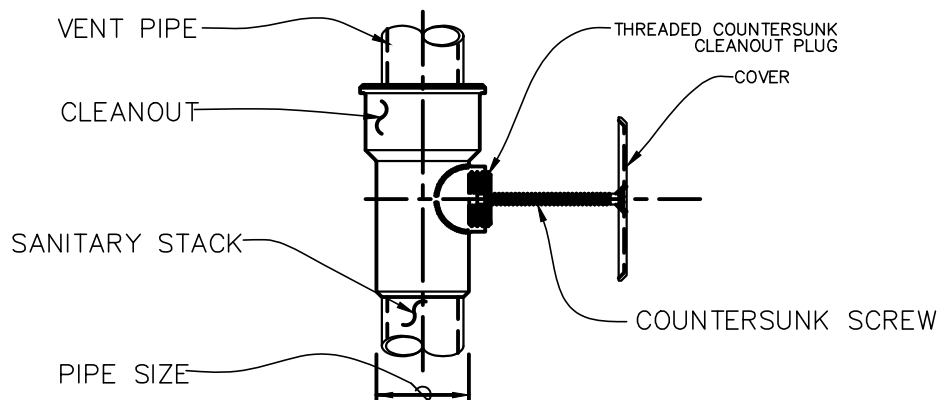


TYPICAL WATER, DRAIN, WASTE AND VENT PIPE SUPPORT DETAIL

NO SCALE



FLOOR FLOOR CLEANOUT

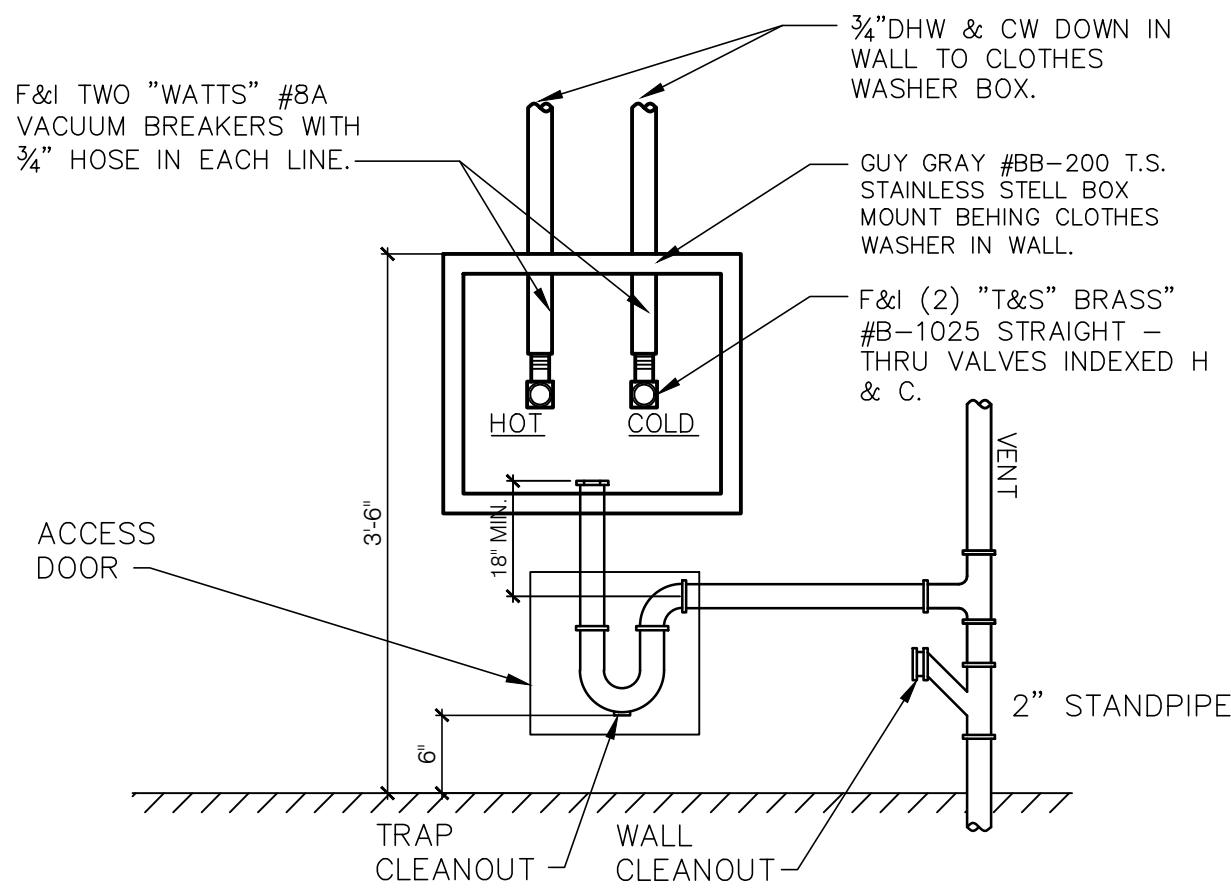


NOTE:
1. INSTALL CLEAN OUTS SO BOTTOM IS AT LEAST 7" ABOVE FINISHED FLOOR.

CLEANOUT TEE & ACCESS COVER

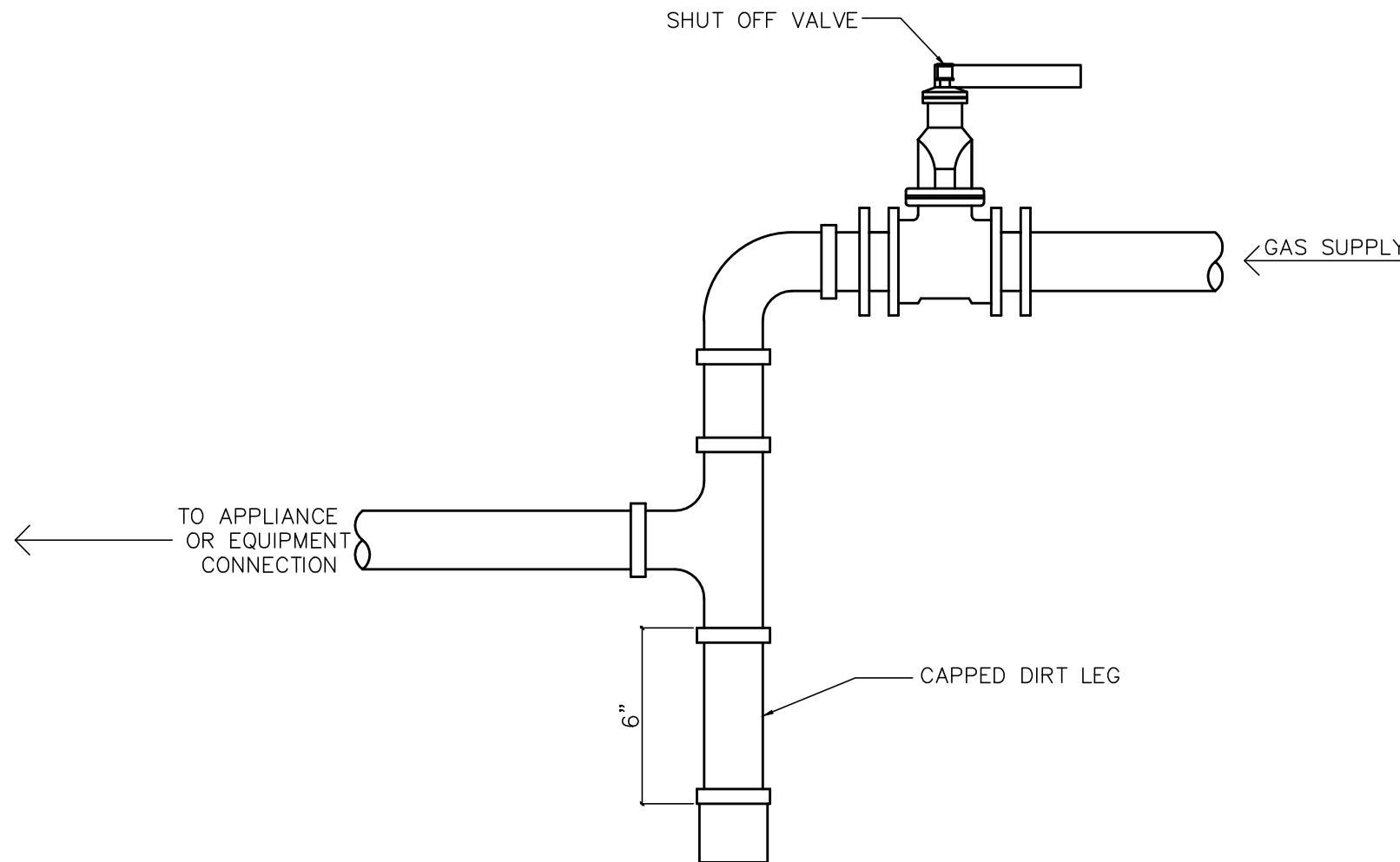
TYPICAL CLEANOUT DETAILS

NO SCALE



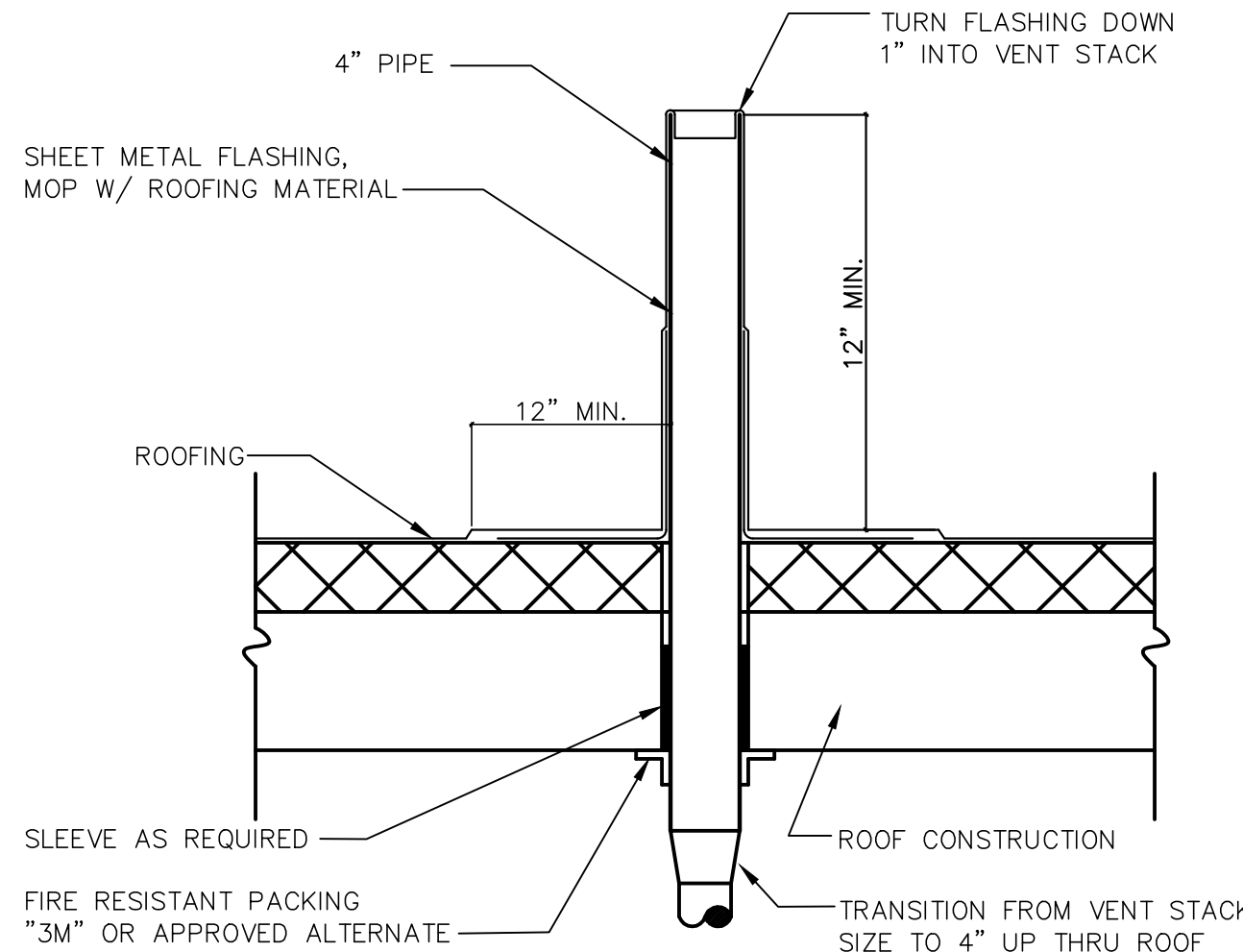
CLOTHES WASHER BOX CONNECTION DETAIL

NO SCALE



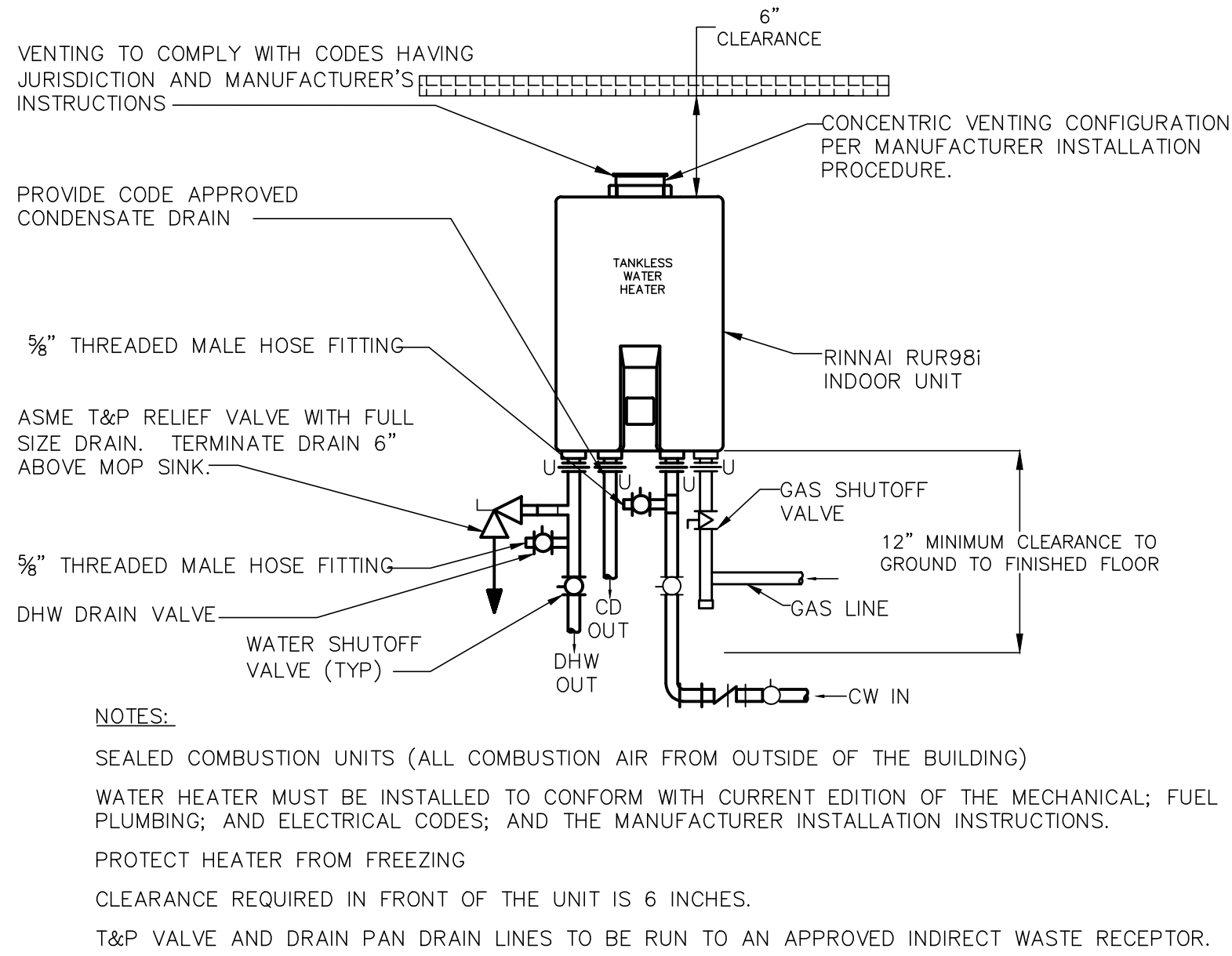
GAS EQUIPMENT CONNECTION DETAIL

NO SCALE



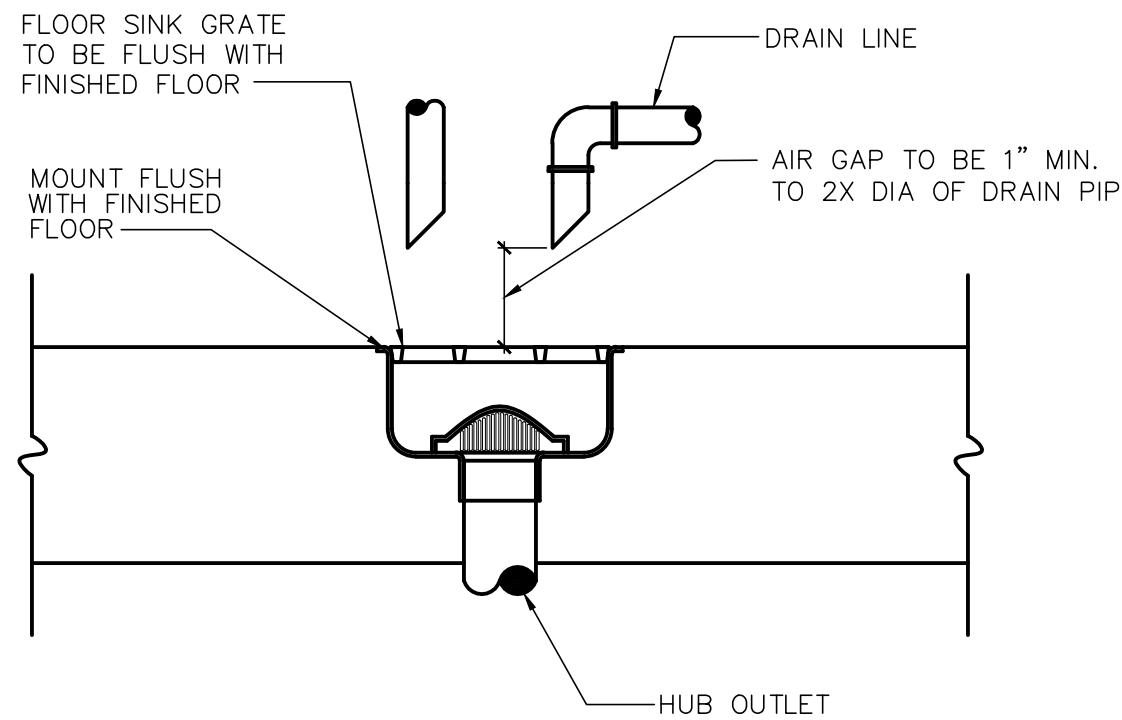
TYPICAL VENT THRU ROOF DETAIL

NO SCALE



INSTANT DOMESTIC WATER HEATER DETAIL

NO SCALE



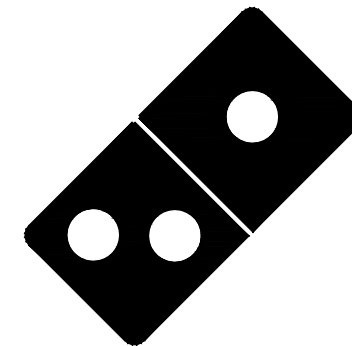
FLOOR SINK DETAIL

NO SCALE

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		<div>DOMINO'S PIZZA BAKERY STORE</div> <div>NEW AIR HANDLING UNITS</div> <div>3544 MARKET ST.</div> <div>LEE'S SUMMIT, MO. 64082</div>	
		<div>DRAWN BY LGC</div> <div>CHECKED BY RCJ</div> <div>JOB NO. 2021034</div> <div>DATE 07/09/2021</div>	
		REVISIONS:	
		S0	
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GENERAL NOTES

A. GENERAL

- The existing conditions indicated on the Drawings are based on surveys made by the consultant(s) as well as on material provided by the Owner and no claim is made as to its absolute completeness and/or accuracy. Prior to the start of construction operations, field-verify existing conditions and dimensions pertaining to this Contract. Notify the Engineer immediately of any discrepancies found at the site in relation to the information provided on the Drawings.
- The Owner or his Representative reserves the right to inspect any material, fabrication, or workmanship at any time in field or shop for conformance to the Specifications and Drawings.
- All details and sections are intended to be typical and shall be construed to apply to any similar situation elsewhere, except where a different detail is shown.
- Do not scale drawings.

B. DESIGN

- Codes, specifications and standards (latest editions, U.N.O.)
 - All design and construction shall conform to the International Building Code (2018) as amended and adopted by the City of Lee's Summit, Missouri.
 - All construction shall comply with the provisions of the following codes, specifications and standards, as referenced in the general building code, except where noted to the contrary on drawings and specifications or where more stringent requirements are specified or shown:

AISC 360

"Specifications for Structural Steel Buildings"

ASCE 7

"Minimum Design Loads and Associated Criteria for Buildings and Other Structures"

AISI

"Specifications for the Design of Cold-Formed Steel Structural Members"

AWS D1.1

"Structural Welding Code - Steel"
- Design Loads:
 - Roof - Snow (incl. rain on snow)

- Ps = 20 psf

- Ce = 0.9

- I = 1.00

- Ct = 1.00
 - Roof Live Load, RLL

- Ordinary flat

20 psf
 - Mechanical Units

- Hood

750 lbs

- Furnace

132 lbs

- Evaporator Coil

50 lbs

- Exhaust Fan

50 lbs
 - Roof Design Dead Loads:

- Roof Deck, Roofing, and Insulation

9.2 psf

- Z Purlin

0.8 psf

Total

10 psf
 - Structural steel shall be designed to resist an overhead Hood (Manufactured by AVI: Model 3255), and AHUs (Manufactured by LENNOX: Evaporator Coil: CX35-36B-F & Furnace: ML193UH070XE36B)

C. STRUCTURAL STEEL

- Qualifications for Welding Work:
 - Perform all welding by a certified welder.
 - Qualify welding processes and welding operators in accordance with AWS "Standard Qualification Procedure".
 - Provide certifications per AWS D1.1. Verify the period of effectiveness of per AWS D1.1 Qualifications
 - If recertification of welders is required, retesting will be Contractor's responsibility.
- Structural steel: ASTM A 992 - wide flange sections, ASTM A 36 - shapes and plates.
- Beam and column connections shall be as shown on plans. If not specified, use a standard series connection using 3/4 in. dia. bolts capable of carrying a reaction equal to Wc/(Lx2) shall be used. Do Not use one-sided or other eccentric connections, except in isolated cases where approved or detailed by the Structural Engineer.
- High Strength Bolts (steel-to-steel connections): ASTM F3125 Grade A325N, load indicator bolts.
 - Tighten all connection bolts to the tension shown in Table 8.2 of the AISC "Specification for Structural Joints using High Strength Bolts" unless noted otherwise. Tighten bolts by the turn-of-nut method or calibrated wrench method.
 - Bolts tightened by the turn-of-nut-method shall have the outer face of the nut match marked with the protruding bolt point before final tightening by a method which will be readily visible after the bolts are tightened.
 - Bolts tightened by the calibrated wrench method shall have a hardened washer under the element turned in tightening.
- Welded connections: AWS Standards and Specifications using E70xx electrodes, unless noted otherwise.
- Do not flame cut holes or enlarge holes by burning.
- Set structural frames accurately to lines and elevations indicated. Align and adjust various members forming a part of a complete frame or structure before permanently fastening. Perform necessary adjustments to compensate for discrepancies in elevations and alignment.
- Clean bearing surfaces of bond-reducing materials and roughen to improve bond to surfaces.
- Immediately after surface preparation, apply structural steel primer paint in accordance with manufacturer's instructions and at a rate to provide a uniform dry film thickness of 2.0 mils. to all structural steel. Use painting methods which result in full coverage of joints, corners, edges, and exposed surfaces.
- Provide 4" x 4" x 1/4" angles as required around openings.

D. CONSTRUCTION

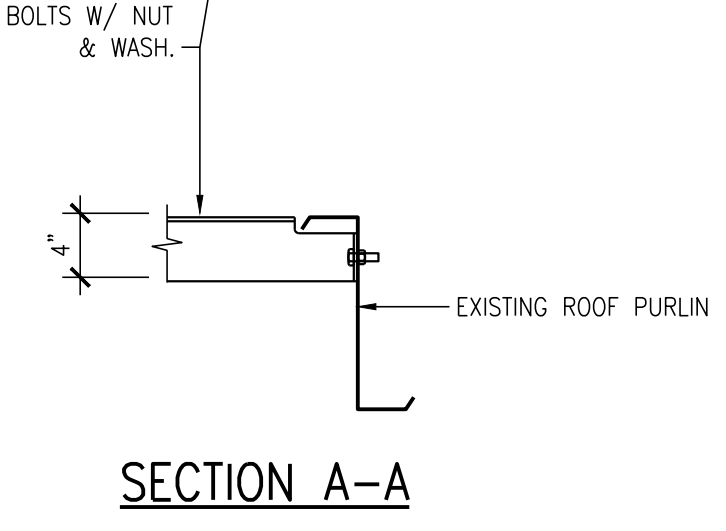
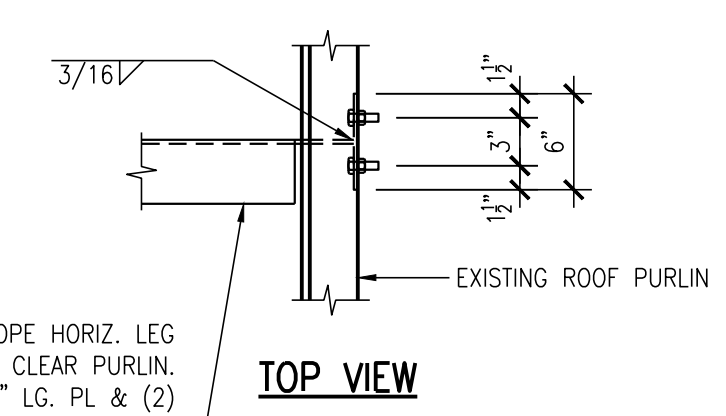
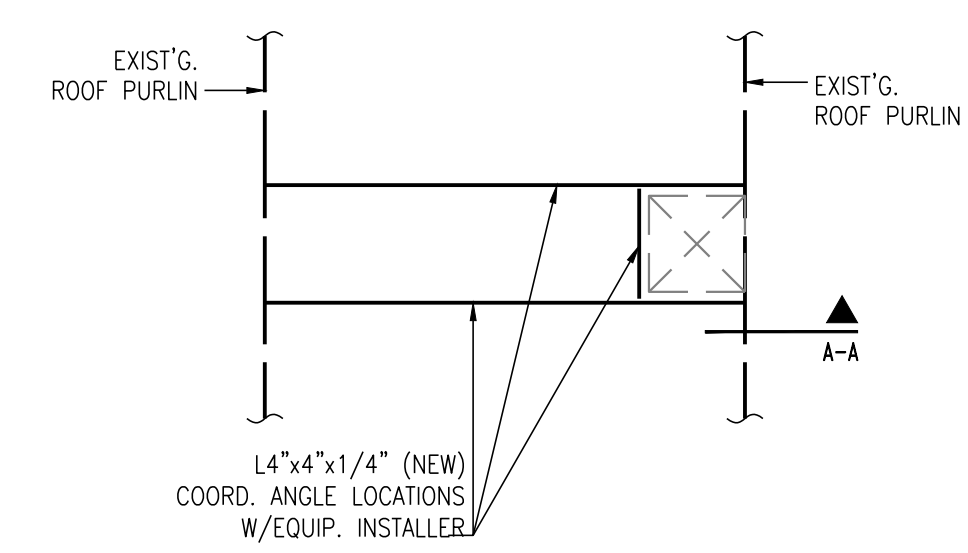
- See mechanical requirements for embedded items not shown herein and to verify size and location of all openings.
- Coordinate the sizes and locations of all miscellaneous metal items required for mechanical and electrical.
- Weld structural necessary structural members prior to cutting the roof for openings.
- During welding or any other construction activity that generates sparks or intense heat, the Contractor shall provide adequate fire protection to the existing structure and contents. At a minimum provide the following:
 - Remove combustible materials from areas of welding and sparks.
 - Provide fire proof blankets and shields to contain sparks where combustible materials cannot be removed.
 - Provide a fire safety observer with multiple fire extinguishers on both the roof and below the roof during welding near the roof structure as well as both sides of demising walls.
 - Maintain fire watch for a period of 4 hours after welding is completed.

E. SPECIAL INSPECTION

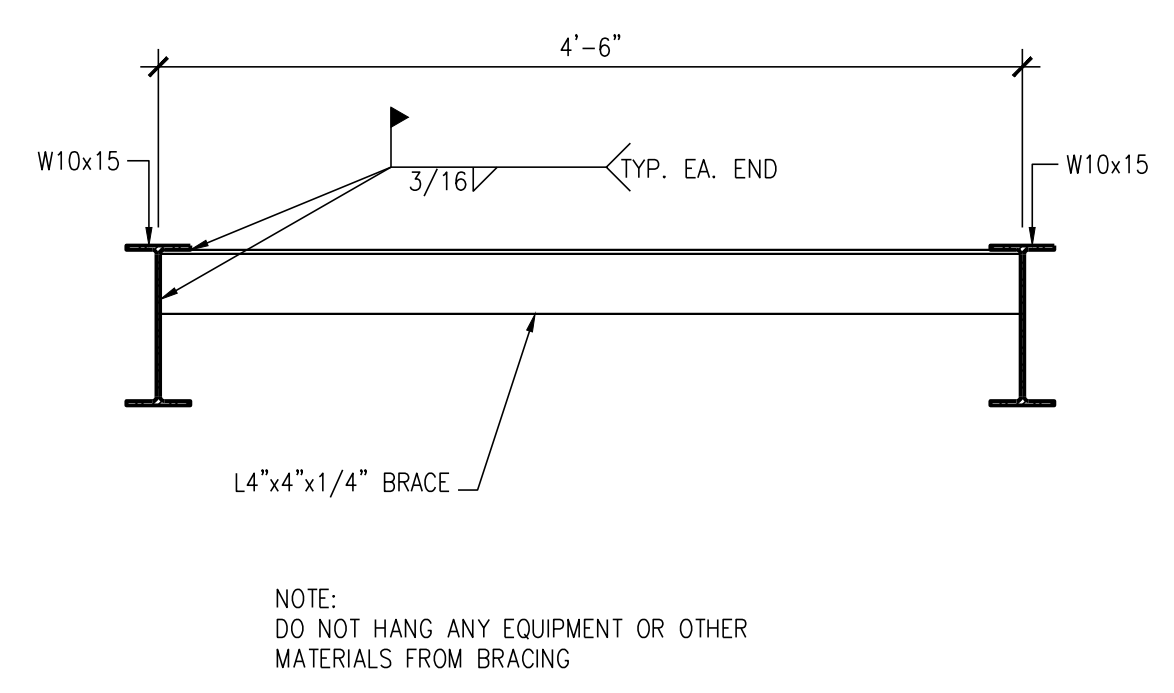
- The following inspection shall be performed by an independent inspection agency employed by the owner and approved by the structural engineer and the building official. Inspection reports shall be submitted to the structural engineer and building official. Special inspection shall conform to Chapter 17 of the 2018 International Building Code, as well as conforming to the items listed below.

Special Inspection requirements:	Continuous	Periodic
----------------------------------	------------	----------
- Structural steel
 - Material verification - structural steel, high-strength bolts, nuts, washers. X
 - Inspection of high-strength bolting X
 - Inspection of high-strength bolting X
 - Single pass fillet welds <5/16".

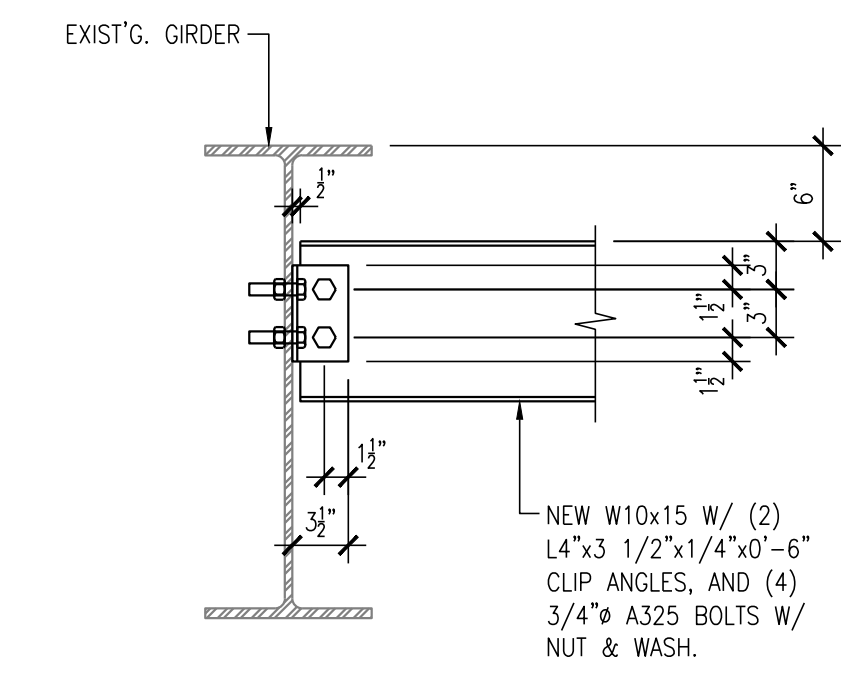
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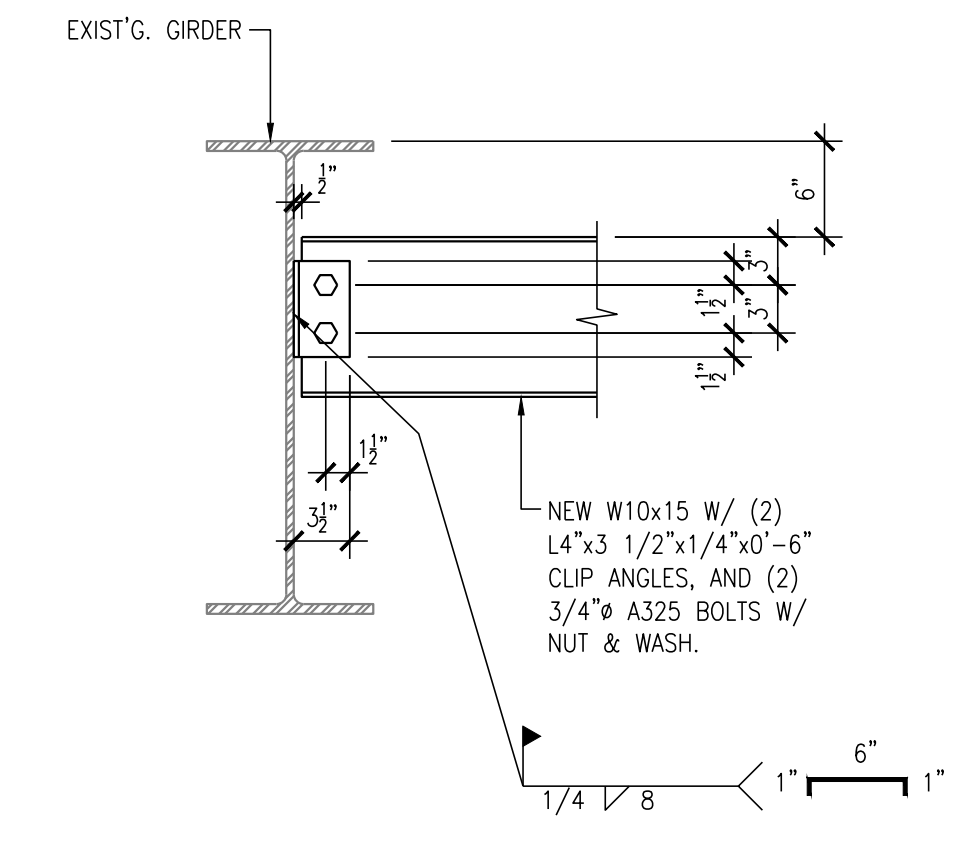
2 ROOF PENETRATION
1/2" = 1'-0"



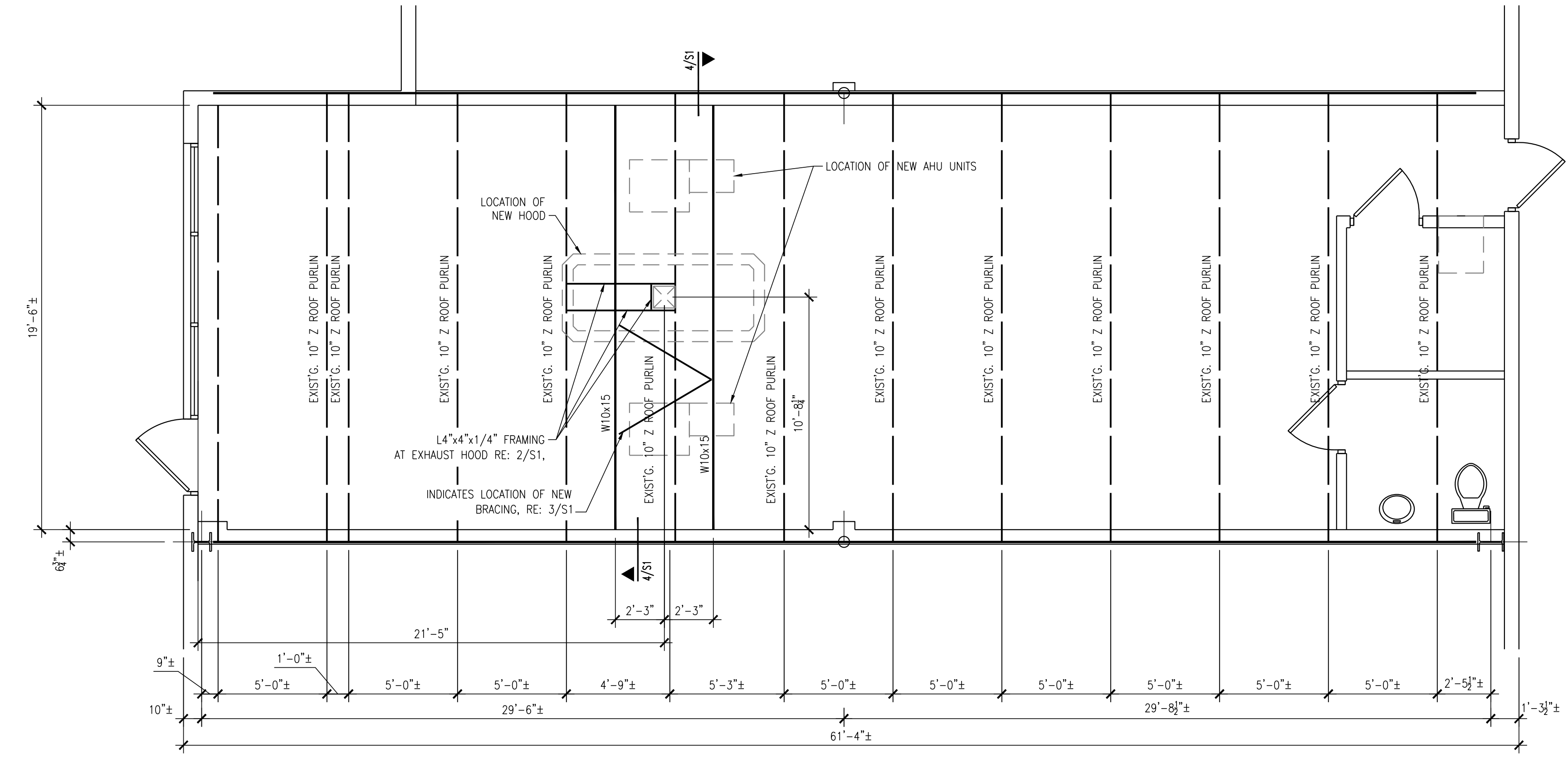
3 BRACING CONNECTION TO FLANGE OF BEAM
1" = 1'-0"



4 NEW BEAM TO EXISTING GIRDER CONNECTION
1" = 1'-0"



4 OPTIONAL BEAM TO GIRDER CONNECTION
1" = 1'-0"



1 AIR HANDLING UNIT PLAN
1/4" = 1'-0"

