

TWO HANDS 728 W. BIG BEAVER RD. TROY, MI

NOTICE TO BIDDERS

THE "GENERAL CONTRACTOR," ITS "SUBCONTRACTORS," AND "VENDORS" SHALL REVIEW THE PROPOSED SITE FOR BIDDING PURPOSES AND TO FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS OF THE SITE AND PROPOSED SPACE. ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS (DRAWINGS) AND EXISTING CONDITIONS SHALL BE SUBMITTED IN WRITING TO THE "ARCHITECT" AND OWNER BY THE "GENERAL CONTRACTOR" FOR CLARIFICATION. BY FAILURE TO CLARIFY DISCREPANCIES, GC SHALL BEAR RISK AND COST. AT NO CHARGE TO OWNER TO RECTIFY. GC AND VENDOR TO CHECK DRAWINGS AND CALL/EMAIL ARCHITECT IN REGARDS TO MOST RECENT DRAWINGS BEFORE ORDERING, MANUFACTURING, AND GOING TO SITE.

EXISTING CONDITIONS / FIELD VERIFICATION

IN AS MUCH AS THE ADAPTATION OF AN EXISTING STRUCTURE REQUIRES THAT CERTAIN ASSUMPTIONS BE MADE REGARDING EXISTING CONDITIONS, AND BECAUSE SOME OF THESE ASSUMPTIONS MAY NOT BE VERIFIABLE WITHOUT EXPENDING ADDITIONAL SUMS OF MONEY OR DESTROYING OTHERWISE ADEQUATE SERVICEABLE PORTIONS OF THE STRUCTURE, THE CLIENT AGREES TO HOLD HARMLESS AND INDEMNIFY DESIGN PROFESSIONALS FOR ALL CLAIMS, COSTS, LOSSES, AND EXPENSES ARISING OR ALLEGEDLY ARISING FROM THE DISCOVERY OF CONCEALED OR UNKNOWN CONDITIONS IN THE EXISTING STRUCTURE OR FROM ANY DEFICIENCIES OR INACCURACIES IN ANY INFORMATION OR DOCUMENTATION FURNISHED TO THE DESIGN PROFESSIONAL BY THE CLIENT, AND TO PAY DESIGN PROFESSIONALS FOR ADDITIONAL SERVICES RESULTING THEREFROM.

IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL ASPECTS CONTAINED WITHIN THE SCOPE OF WORK AS SET FORTH BY THESE DOCUMENTS. ANY DISCREPANCIES FOUND ARE TO BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE DESIGN PROFESSIONALS PRIOR TO COMMENCEMENT OF WORK.

IF THERE IS AN EXISTING SPRINKLER SYSTEM MODIFICATIONS WILL NEED TO BE FIELD VERIFIED AND DRAWINGS WILL NEED TO BE SUBMITTED AND PERMITTED BY A SEPARATE SPRINKLER CONTRACTOR.

PROJECT DATA

PROJECT LOCATION: TWO HANDS 728 W. BIG BEAVER RD. TROY, MI 48084	OWNER: MRS. SARAH YISTER EMAIL: YISTERS@GMAIL.COM P: 248.914.0086	ENGINEER OF RECORD: TECHNICAL GROUP, INC. 27300 HAGGERTY ROAD FARMINGTON HILLS, MI 48331 P: 248.426.8000
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LOCAL AUTHORITIES

BUILDING DEPARTMENT TROY BUILDING DEPARTMENT RANDY MCCLURE DEPARTMENT OF BUILDING INSPECTIONS 500 W. BIG BEAVER ROAD TROY, MI 48084 P: 248.524.3344	HEALTH DEPARTMENT OAKLAND COUNTY HEALTH DEPT. OAKLAND COUNTY HEALTH DIVISION 277525 GREENFIELD RD. SOUTHFIELD MI, 48076 P: (248) 424 - 7000
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CODE INFORMATION

PROJECT SCOPE: INTERIOR BUILD OUT OF TWO HANDS

APPLICABLE CODES: 2015 MICHIGAN BUILDING CODE, MBC 2015
2015 MICHIGAN MECHANICAL CODE, MMC 2015
2018 MICHIGAN PLUMBING CODE, MPC 2018
2017 MICHIGAN ELECTRICAL & NEC 2017 WITH PART 8 CODE RULES
2015 INTERNATIONAL FUEL GAS CODE, IFGC 2015
ACCESSIBILITY: MICHIGAN BARRIER FREE DESIGN LAW, P.A. 1966 AS AMENDED AND THE 2009 ICC/ANSI A117.1 STANDARD AS REFERENCED FROM CHAPTER 11 OF THE 2015 MICHIGAN BUILDING CODE.

OCCUPANCY TYPE: A-2: ASSEMBLY

CONSTRUCTION TYPE: II-B

PROPOSED OCCUPANCY LOAD CALCULATIONS:

TOTAL AREA OF BUILDING: 1450 sq. ft

PROPOSED SEAT COUNT: 10

NUMBER OF EMPLOYEES (INCLUDING OWNERS AND MANAGERS): 6

TOTAL: 16

RESTROOM PLUMBING FIXTURES

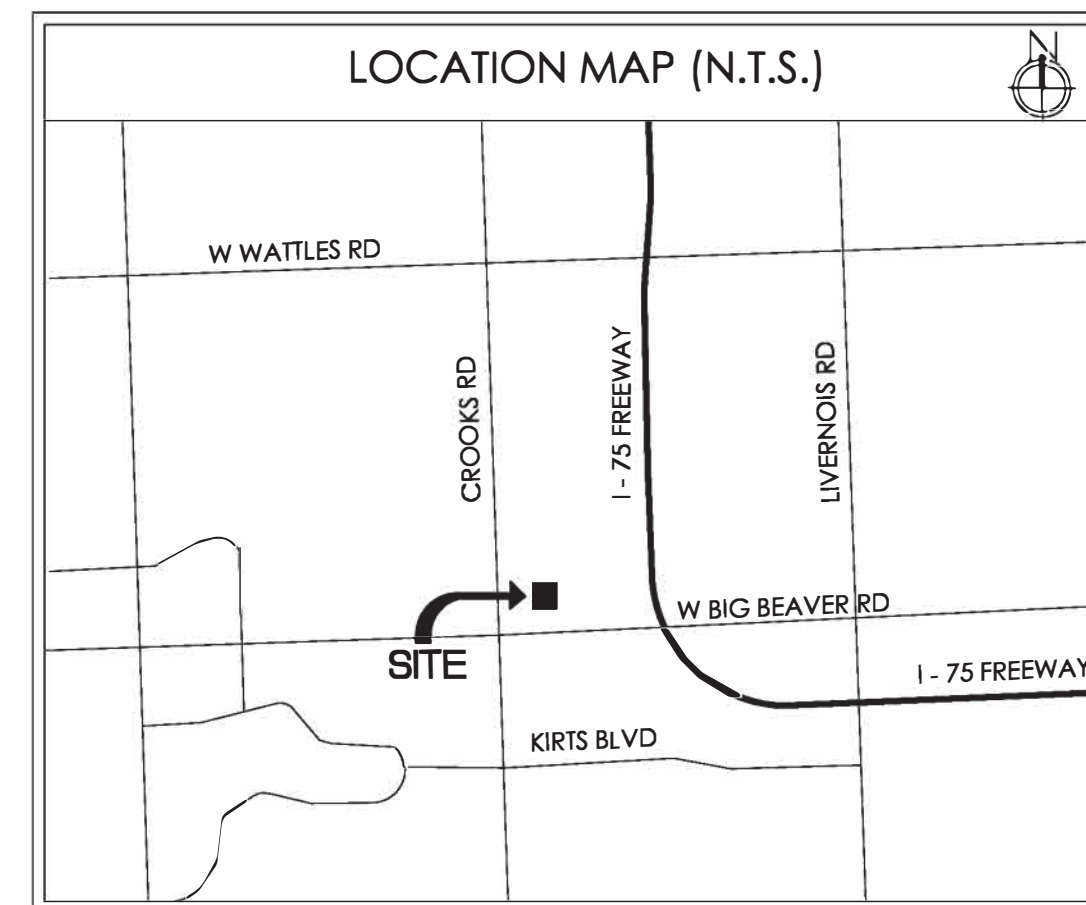
FROM 2017 MBC, TABLE 2902.1

BUILDING OCCUPANCY CALCULATION (FROM TABLE 1004.1.1):
MAXIMUM OCCUPANTS (GREATEST OF OCCUP. CALCULATION OR SEAT COUNT NUMBERS) = 16

50% MALE AND 50% FEMALE = 16/2 = 8 EACH
8/75 = .11
1 WC EACH RESTROOM, (TABLE 2902.1)
29200 = .15 1 LAV EACH RESTROOM, (TABLE 2902.1)

REQUIRED	MEN		WOMEN		PROVIDED	MEN		WOMEN	
W.C., (1:75)	1	1	1	1	W.C.	1	1		
URINAL*	-	-	-	-	URINAL	-	-		
LAVATORY (1:200)	1	1	1	1	LAVATORY	1	1		

- DEFERRED SUBMITTAL**
- ANSUL FIRE SUPPRESSION SYSTEM
 - AIR BALANCE REPORT PRIOR TO FINAL INSPECTION
 - BUILDING FIRE SUPPRESSION (IF MODIFIED)
 - BUILDING FIRE ALARM (IF NEEDED)



SHEET INDEX

SHEET #	SHEET TITLE
T-1	COVER SHEET
T-1.1	ADA STANDARDS
ARCHITECTURAL	
A-1	DEMO AND PROPOSED FLOOR PLANS
A-2	DEMO AND PROPOSED REFLECTED CEILING PLANS
A-3	PROPOSED INTERIOR ELEVATIONS
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MECHANICAL	
M-1	MECHANICAL PLAN
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ELECTRICAL	
E-1	ELECTRICAL POWER PLAN AND PANEL SCHEDULE
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P-1	WATER, GAS, SANITARY AND GREASE WASTE PLANS & NOTES

No.	Date	By	Notes
1	07.18.22	MB	PLAN SUBMITTAL TO CITY
2	08.04.22	JB	PLAN REVIEW REVISIONS

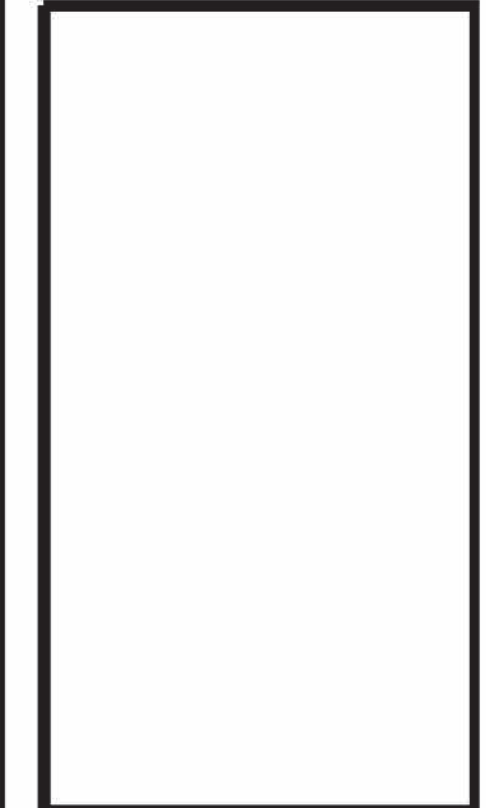
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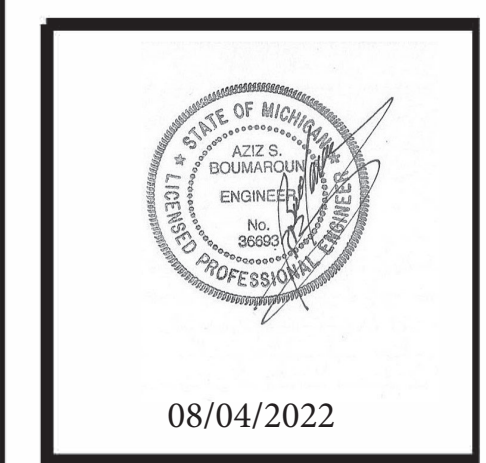
Scale: AS NOTED

Date: 6.12.22

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PROJECT
TWO HANDS
728 W BIG BEAVER RD
TROY, MI 48084

SHEET TITLE
COVER SHEET

DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

JOB #
TG-22715

SHEET
T-1

ADAAG/ANSI REQUIREMENTS

QUEUING AISLE | REFERENCE SHEET ADA-4
 1. THERE MUST BE A 60" LONG BY 60" WIDE MINIMUM TURNING SPACE AT EVERY TURN IN THE AISLE PATH OR IF THE PATH IS AT LEAST 42" WIDE, THE DEPTH OF THE TURN MUST BE AT LEAST 48". ADAAG 304.3, 403.5.2 | DIAGRAM 4.10
 2. THE NARROWEST CLEAR WIDTH BETWEEN THE BARRIERS MUST BE A MINIMUM OF 36". 403.5.1 | DIAGRAM 4.10
 3. QUEUING AISLE SEPARATION BARRIERS MUST HAVE DETECTABLE ELEMENTS. ADAAG 307.2 | DIAGRAM 4.9

SERVICE COUNTER |
 1. THE HEIGHT OF THE ACCESSIBLE ORDER COUNTER SHALL NOT EXCEED 34" MAXIMUM. ADAAG 902.3. (PREFERRED 33 1/2") ANSI 904.4.2 | DIAGRAM 4.13
 2. THE WIDTH OF THE ACCESSIBLE ORDER COUNTER SHALL NOT BE LESS THAN 36" MINIMUM. ADAAG 902.3 ANSI 904.3 | DIAGRAM 4.13
 3. THE HEIGHT OF THE ACCESSIBLE PICK-UP COUNTER SHALL NOT EXCEED 34" MAXIMUM. ADAAG 902.3 ANSI 904.4.2 | DIAGRAM 4.13
 4. THE WIDTH OF THE ACCESSIBLE PICK-UP COUNTER SHALL NOT BE LESS THAN 36" MINIMUM. ADAAG 902.3 ANSI 904.3 | DIAGRAM 4.13
 5. THE CREDIT CARD READER SHALL BE IN REACH OR ON A CORD LONG ENOUGH TO REACH THE LAP OF A CUSTOMER WHO USES A WHEELCHAIR. ADAAG 308 ANSI 902.3
 6. THE SIGNATURE PAD WRITING SURFACE IS REQUIRED TO BE 34" AFF MAXIMUM OR ON A CORD LONG ENOUGH TO REACH THE LAP OF A CUSTOMER WHOSE USES A WHEELCHAIR. ADAAG 902.4 ANSI 902.3

SELF SERVICE CONDIMENTS AND DRINKS COUNTER |
 1. IT IS REQUIRED TO HAVE AT LEAST ONE OF EACH CONTAINER, UTENSIL OR CONDIMENT LOCATED WITHIN 48" MAXIMUM AFF OR 46" MAXIMUM AFF FOR DEPTHS FROM 10" TO 24". ADAAG 308 | DIAGRAM 4.12, DIAGRAM 4.12 ANSI 308
 2. IT IS REQUIRED TO HAVE AT LEAST ONE OF EACH TYPE OF DRINK DISPENSER LOCATED WITHIN 48" MAXIMUM AFF OR 46" MAXIMUM AFF FOR DEPTHS FROM 10" TO 24". ADAAG 308 ANSI 308 | DIAGRAM 4.12, DIAGRAM 4.12
 3. THE TOP OF EACH SELF SERVICE COUNTER OR TRAY SLIDE IS NOT TO EXCEED 34" MAXIMUM AFF. ADAAG 902.3. (PREFERRED 33 1/2") ANSI 904.5.2 | DIAGRAM 4.13
 4. THE CONTROL OF EVERY DISPENSER IS REQUIRED TO BE OPERABLE WITH A CLOSED FIST OR FLAIL HAND. ADAAG 309.4 ANSI 309.4 | DIAGRAM 2.3

INTERIOR ACCESSIBLE SEATING AND TABLES |
 1. 5% OF THE SEATING POSITIONS IN EACH AREA MUST BE ACCESSIBLE. ADAAG 226.1
 2. IT IS REQUIRED TO HAVE A 36" WIDE MINIMUM ACCESSIBLE ROUTE SERVING EVERY ACCESSIBLE SEATING LOCATION. ADAAG 403 ANSI 403
 3. THE HEIGHT OF THE TABLE TOP IS REQUIRED TO BE BETWEEN 28" AND 34" MAXIMUM AT EVERY ACCESSIBLE SEATING POSITION. ADAAG 902.3 ANSI 902.3 | DIAGRAM 2.2
 4. KNEE CLEARANCE OF 27" HIGH BY 30" WIDE BY 17" DEEP IS TO BE PROVIDED AT EVERY ACCESSIBLE SEATING POSITION. ADAAG 902.2 ANSI 902.2 | DIAGRAM 2.2
 5. THE DINING AREA MUST HAVE AN AUDIBLE PUBLIC ALARM AND A VISUAL FIRE ALARM. ADAAG 702

INTERIOR ACCESSIBLE ROUTES AND ELEMENTS |
 1. THERE MUST BE A 36" WIDE ACCESSIBLE ROUTE CONNECTING THE ACCESSIBLE ENTRY/ENTRANCES WITH ALL ACCESSIBLE SPACES AND ELEMENTS WITHIN THE FACILITY INCLUDING SERVING AND CONDIMENT COUNTERS, DINING AREAS, RESTROOMS AND PLAYGROUNDS IF AVAILABLE. ADAAG 206.2.4, 402
 2. ALL ACCESSIBLE ROUTES ARE REQUIRED TO BE STABLE, FIRM AND SLIP RESISTANT. ADAAG 206.2.4, 302.1. ANSI 302.1
 3. ACCESSIBLE ROUTES ARE REQUIRED TO BE FREE OF ABRUPT CHANGES IN LEVEL GREATER THAN 1/4" IN HEIGHT. ADAAG 206.2.4, 403.4, 303 ANSI 303.2.
 4. ACCESSIBLE ROUTES ARE REQUIRED TO BE FREE OF GAPS GREATER THAN 1/2" WIDE. ADAAG 206.2.4, 403.2, 302.3. ANSI 302.3.
 5. ACCESSIBLE ROUTES ARE TO HAVE RUNNING SLOPES 5% OR LESS. ADAAG 206.2.4, 403.3. ANSI 405.2
 6. ACCESSIBLE ROUTES ARE TO HAVE CROSS SLOPES 2% OR LESS. ADAAG 206.2.4, 403.3 ANSI 405.3

PROTRUDING OBJECTS |
 1. ALL PEDESTRIAN PATHS ARE TO BE FREE OF OBJECTS PROTRUDING MORE THAN 4" (1 1/2" IF POST MOUNTED SUCH AS SIGNAGE) HORIZONTALLY, BETWEEN 27" AND 80" HIGH. ADAAG 307.2 ANSI 307.3 | DIAGRAM 2.4
 2. IT IS REQUIRED TO HAVE 80" MINIMUM HEAD CLEARANCE ALONG ALL PEDESTRIAN PATHS. ADAAG 307.4 ANSI 307.4 | DIAGRAM 2.4

ADAAG/ANSI REQUIREMENTS

RESTROOMS
 1. A SIGN MUST BE LOCATED OUT OF THE SWING OF ANY DOOR AT THE LATCH SIDE OF THE RESTROOM DOOR. ADAAG 703.4.2 ANSI 703.3.11 | DIAGRAM 4.6
 2. THE RESTROOM SIGN MUST HAVE TACTILE CHARACTERS THAT ARE RAISED AT LEAST 1/32". ADAAG 703.2.1 ANSI 703.2.4, 703.2.9 | DIAGRAM 4.6
 3. THE RESTROOM SIGN MUST HAVE TACTILE CHARACTERS WITH HEIGHT BETWEEN 5/8" AND 2" ADAAG 703.2.5 ANSI 703.2.4 TABLE 703.2.4 | DIAGRAM 4.6
 4. THE RESTROOM SIGN WILL HAVE THE LOWEST TACTILE CHARACTER 48" MIN. AND THE BASELINE OF THE HIGHEST TACTILE CHARACTER 60" MAX. ADAAG 703.4.1 ANSI 703.3.10 | DIAGRAM 4.6
 5. THE RESTROOM SIGN MUST HAVE BRAILLE. ADAAG 703.3 ANSI 703.3, 703.4 | DIAGRAM 4.6
 6. THE RESTROOM SIGN MUST BE NON GLARE AND THE CHARACTERS MUST CONTRAST WITH THE BACKGROUND. ADAAG 703.5.1 ANSI 703.5.3 | DIAGRAM 4.6
 7. THE FLOOR SURFACES IN THE RESTROOM CANNOT BE SLOPED GREATER THAN 2% IN ALL DIRECTIONS WITH NO ABRUPT CHANGE IN LEVEL GREATER THAN 1/2" HIGH AND NO GAPS GREATER THAN 1/2" WIDE. ADAAG 206.2.4, 302.3, 303, 403.2, 403.3, 403.4 ANSI 302.2, 303.3, 403.3
 8. THERE MUST BE A 60" DIAMETER OR A T-TURN TURNING SPACE PROVIDED IN THE RESTROOM. ADAAG 304.3 | DIAGRAM 4.8
 9. THERE MUST BE AN AUDIBLE AND VISUAL PUBLIC ALARM. ADAAG 702

RESTROOM ENTRY DOOR
 1. ALL OPENING HARDWARE CAN BE OPERATED WITH A CLOSED FIST OR A FLAIL HAND AND MUST BE LOCATED BETWEEN 34" AND 48" AFF. ADAAG 404.2.7 ANSI 404.2.6 | DIAGRAM 2.5
 2. OPENING FORCE FOR ALL ACCESSIBLE INTERIOR AND EXTERIOR DOORS WILL NOT EXCEED 5 LBF. ADAAG 404.2.9 ANSI 404.2.8
 3. DOOR CLOSING SPEED WILL BE 5 SECONDS OR MORE FROM 90 DEGREES TO 12 DEGREES FROM THE LATCH FOR ALL LEAVES OF THIS DOORWAY. ADAAG 404.2.8.1 ANSI 404.2.7.1
 4. THE CLEAR WIDTH OF THE DOOR MUST BE A MINIMUM OF 32". ADAAG 404.2.3 | 404.2.4
 5. THRESHOLDS FOR DOORS WILL NOT HAVE AN OVERALL HEIGHT GREATER THAN 1/2" MAX. OR HAVE ABRUPT PORTIONS THAT ARE 1/2" HIGH MAX. THE THRESHOLD MAY HAVE A 1:2 MAX BEVEL FOR ANY PORTION THAT IS GREATER THAN 1/2" HIGH. ADAAG 404.2.5 ANSI 404.2.4
 6. DOORS MUST HAVE A 10" HIGH SMOOTH SURFACE OR KICK PLATE LOCATED ON THE BASE OF THE PUSH SIDE OF ALL LEAVES OF THE DOORWAY. ADAAG 404.2.10
 7. ALL DOORS MUST HAVE FULL AND PUSH SIDE MANEUVERING SPACES THAT COMPLY WITH FIGURE 404.2.4
 8. THE REQUIRED MANEUVERING SPACES ON EACH SIDE OF THE DOOR MAY BE SLOPED 2% OR LESS IN ALL DIRECTIONS. ADAAG 404.2.4 ANSI 303.2

RESTROOM LAVATORY
 1. THE TOP OF THE ACCESSIBLE LAVATORY MUST BE BETWEEN 28" TO 34" HIGH. ADAAG 213.3.4, 606.2, 606.3 | DIAGRAM 4.3
 2. THERE MUST BE A 27" HIGH BY 30" WIDE BY 8" DEEP MINIMUM KNEE CLEARANCE UNDER THE LAVATORY ALONG WITH A 9" HIGH BY 30" WIDE BY 17" DEEP MINIMUM TOE CLEARANCE. ADAAG 213.3.4, 305.4, 306, 606.2 | DIAGRAM 4.3
 3. ALL ACCESSIBLE LAVATORY PIPES MUST BE INSULATED OR OTHERWISE PROTECTED FROM CONTACT. ADAAG 213.3.4, 606.5 ANSI 606.6
 4. THE FAUCET HARDWARE AT THE ACCESSIBLE LAVATORY MUST BE AUTOMATIC OR OPERABLE WITH A CLOSED FIST OR FLAIL HAND. ADAAG 213.3.4, 606.4 ANSI 606.4 | DIAGRAM 2.3
 5. A MIRROR MUST BE PROVIDED THAT HAS A BOTTOM REFLECTING EDGE LOCATED A MAXIMUM OF 40" HIGH.

DISPENSERS/ACCESSORIES
 1. IF THERE IS A CUSTOMER USE LIGHT SWITCH, IT MUST BE MAXIMUM 48" IN AN ACCESSIBLE LOCATION. ADAAG 205.1, 308, 309.3
 2. THERE MUST BE AT LEAST ONE TYPE OF EACH DISPENSER ON AN ACCESSIBLE ROUTE WITH A 30"X48" MINIMUM CLEAR FLOOR SPACE AND MUST BE MOUNTED WITH CONTROLS 48" MAXIMUM AFF. ADAAG 305.3, 308
 3. THE DIAPER CHANGING STATION MUST BE ON AN ACCESSIBLE ROUTE WITH AN ACCESSIBLE CLEAR FLOOR SPACE. ADAAG 305, 902.1, 902.2 ANSI 308
 4. THE DIAPER CHANGING PULL DOWN HANDLE AND ALL OTHER OPERABLE CONTROLS MUST BE LOCATED AT A MAXIMUM OF 48" HIGH AND THE SURFACE MUST BE A MAXIMUM OF 28" TO 34" HIGH WHEN OPENED. 305, 902.1, 902.3
 5. THE KNEE CLEARANCE FOR THE DIAPER CHANGING STATION (WHEN OPEN) MUST PROVIDE FOR 27", 306, 902.1, 902.2
 6. ACCESSIBLE DISPENSERS MUST BE OPERABLE WITHOUT PINCHING, GRASPING OR TWISTING OF THE WRIST AND REQUIRE 5 LBF OR LESS TO OPERATE. ADAAG 205, 309.4 ANSI 309.4

RESTROOM TOILET
 1. THERE MUST ACCESSIBLE TOILET SEAT LOCATED 17" TO 19" AFF AND CENTERED 16" TO 18" FROM SIDEWALL. ADAAG 604.4, 604.2 | DIAGRAM 4.7
 2. THE TOILET FLUSH CONTROL MUST BE AUTOMATIC OR LOCATED ON THE OPEN SIDE OF THE TOILET. ADAAG 604.6 | DIAGRAM 4.7
 3. A HORIZONTAL REAR WALL GRAB BAR MUST BE PROVIDED THAT IS 1 1/2" TO 1/2" IN DIAMETER, 36" LONG MIN. EXTENDING 12" MIN FROM THE TOILET CENTERLINE TOWARDS THE NEAR SIDE WALL, CENTERED 33" TO 36" ABOVE THE FLOOR TO THE TOP OF THE GRIPPING SURFACE AND WITH NO OBSTRUCTIONS WITHIN 12" ABOVE OR 1 1/2" BELOW THE BAR. ADAAG 604.5.2, 609 ANSI 604.1, 604.5.2, 609 | DIAGRAM 4.1
 4. THE URINALS FLUSH CONTROL MUST BE AUTOMATIC OR 48" HIGH MAX AND BE OPERABLE WITH NO MORE THAN 5 LBF OF PRESSURE. ADAAG 605.4 ANSI 604.6 | DIAGRAM 4.4
 5. GRAB BARS AT THE SIDE SHALL BE AT LEAST 42" LONG POSITIONED NO MORE THAN 12" FROM THE REAR WALL. GRAB BARS AT THE BACK SHALL BE NOT LESS THAN 36" LONG. VERTICAL GRAB BARS TO BE 18" IN LENGTH AND 39-41" AFF AND 39-41" FROM REAR WALL (IBC 1607.7 & ANSI 604.8.4.1) (ICC/ANSI A117.1-2003 FIG. 604.5.1) ANSI 604.5.1, 609.4 | DIAGRAM 4.1
 6. THE CENTERLINE OF THE TOILET COVER DISPENSER MUST BE LOCATED 7" TO 9" FROM THE FRONT OF THE CLOSET AND AT LEAST 1-1/2" BELOW THE SIDE WALL GRAB BAR OR AT LEAST 12" ABOVE THE GRAB BAR. IT ALSO MUST BE LOCATED 15" TO 48" MAXIMUM ABOVE THE FLOOR. ADAAG 604.7, 609.3 | DIAGRAM 4.7
 7. IF THE ACCESSIBLE WATER CLOSET IS IN A COMPARTMENT, IT MUST HAVE AT LEAST 60" MINIMUM CLEARANCE MEASURED PERPENDICULAR FROM THE SIDE WALL PROVIDED. ADAAG 604.3 | DIAGRAM 4.7
 8. WATER CLOSET MUST ALSO HAVE 56" MINIMUM CLEARANCE MEASURED FROM THE REAR WALL AND HAVE A WIDTH OF A MINIMUM OF 60". ADAAG 604.8.1.1 | DIAGRAM 4.7
 9. IF THE WATER CLOSET IS WALL-HUNG, THE DEPTH OF THE COMPARTMENT MUST BE A MINIMUM OF 56". ADAAG 604.8.1.1
 10. IF THE WATER CLOSET IS FLOOR-MOUNTED, THE COMPARTMENT MUST HAVE A DEPTH OF AT LEAST 59". ADAAG 604.8.1.1 | DIAGRAM 4.2
 11. THE COMPARTMENT MUST PROVIDE AT LEAST 6" DEEP MINIMUM SPACE AT THE FRONT OF THE COMPARTMENT AND ONE OTHER SIDE. ADAAG 604.8.1.1 | DIAGRAM 4.8
 12. IF THE TOILET COMPARTMENT IS SELF-CLOSING, PROVIDE A CLEAR OPENING WIDTH OF AT LEAST 32" AND WITHIN 4" OF THE COMPARTMENT CORNER DIAGONALLY OPPOSITE THE TOILET. ADAAG 604.8.1.2 | DIAGRAM 4.7
 13. ALL ACCESSIBLE TOILET COMPARTMENT DOOR HARDWARE MUST BE CENTERED BETWEEN 34" AND 48" AFF. ADAAG 404.2.7 | DIAGRAM 2.3
 14. IF THE ACCESSIBLE COMPARTMENT DOOR IS OUT-SWINGING, THE EXTERIOR MANEUVERING SPACES MUST BE COMPLIANT WITH FIGURE 404.2.4 ADAAG 604.8.1.2 | FIGURE 404.2.4
 15. ALL ACCESSIBLE COMPARTMENT DOOR HARDWARE MUST BE OPERABLE WITH A FIST OR FLAIL HAND. ADAAG 604.8.1.2, 404.2.7 | DIAGRAM 2.3
 16. THE INSIDE AND OUTSIDE OF THE ACCESSIBLE COMPARTMENT DOOR MUST BE EQUIPPED WITH A LOOP OR U-SHAPED HANDLE. ADAAG 604.8.1.2
 17. AT LEAST ONE OF EACH HOOK AND DISPENSER IN THE ACCESSIBLE COMPARTMENT MUST BE AT 48" MAXIMUM AFF. ADAAG 213.3.7, 603.4, 604.8.3, 308
 18. COMPARTMENT DOOR OPENINGS SHALL BE 4 INCHES (100MM) MAXIMUM FROM THE FRONT PARTITION, WHERE LOCATED IN THE FRONT PARTITION, THE DOOR OPENING SHALL BE 4 INCHES MAXIMUM FROM THE SIDE WALL OR PARTITION FARTHEST FROM THE WATER CLOSET. | DIAGRAM 4.9.

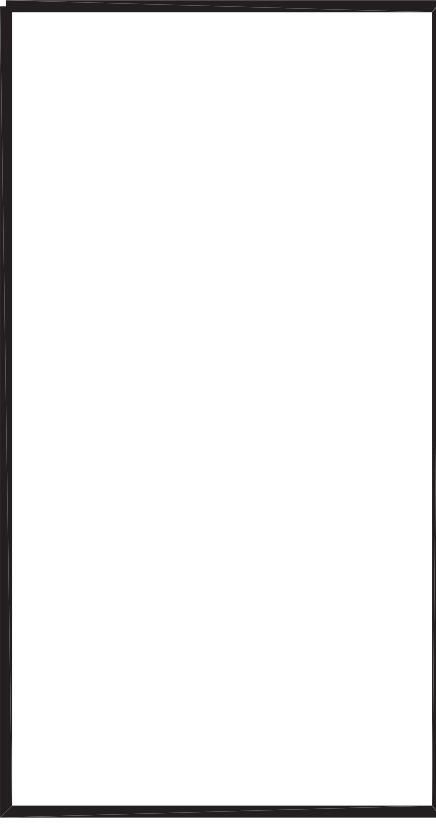
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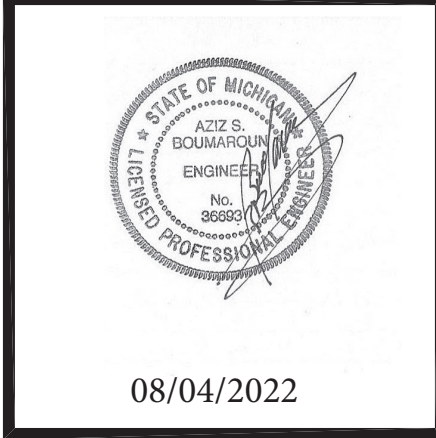
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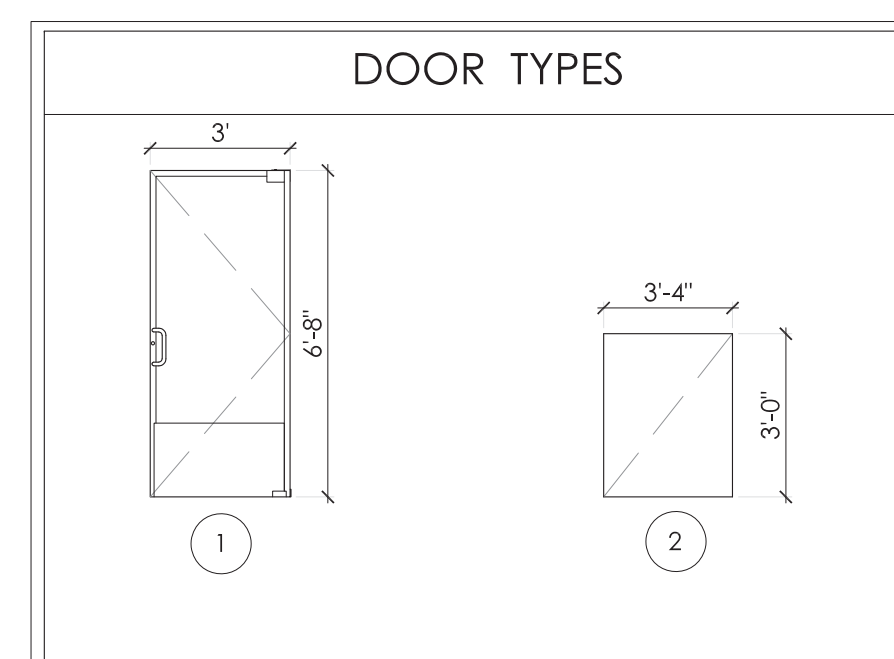
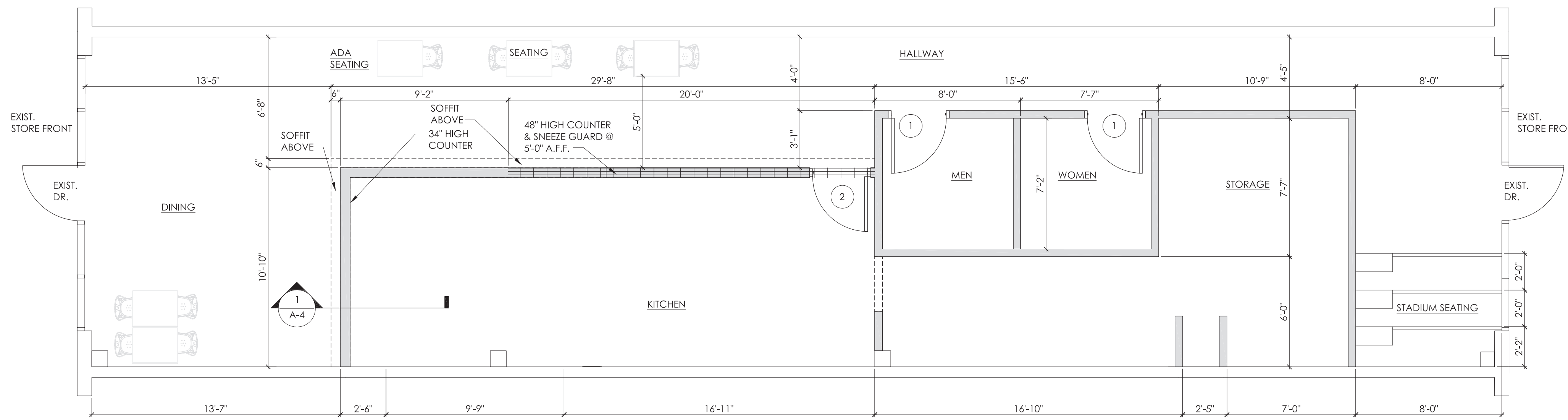
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T-1.1

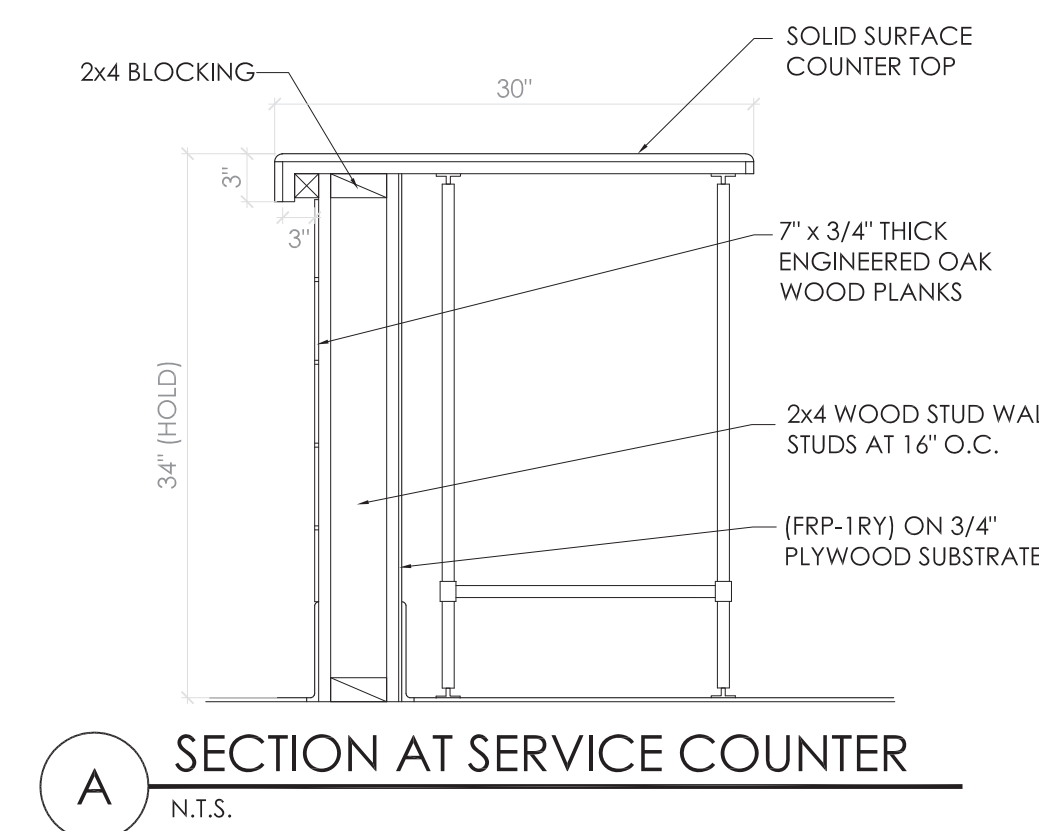


WALL TYPE LEGEND

	DEMO WALL
	EXISTING WALL
	NEW FULL WALL
	DEMO AREA
	48" HEIGHT WALL

DOOR AND WINDOW SCHEDULE

SYM	DOOR SIZE	MATERIAL	FINISH	FRAME	REMARKS / USE
1	3'-0" X 6'-8" X 2"	EXISTING DOOR	EXISTING	NA	REUSE EXISTING DOORS AND FRAMES FOR NEW RESTROOMS
2	3'-0" X 3'-0" X 1	WOOD	PER OWNER	WOOD	SWING DOOR FOR COUNTER



DEMO SCOPE OF WORK

- DEMO BOTH EXISTING R.R.'S AND PREP FOR NEW CONSTRUCTION
- DEMO EXISTING CEILING GRID AND PREP FOR NEW CONSTRUCTION PER LAYOUT ON SHEET A-2

PROPOSED SCOPE OF WORK

- INSTALL NEW WALLS AS PER LAYOUT.
- INSTALL NEW DOORS.
- INSTALL NEW COUNTERTOPS AND FURNITURE (SEE SHEET A-1).
- INSTALL NEW EQUIPMENT (SEE SHEET EQ-1)
- INSTALL NEW RESTROOMS PER PLANS.
- RELOCATE 2x4 LIGHT FIXTURES PER PLANS
- RECONFIGURE EXISTING CEILING GRID PER PLANS.

- GENERAL NOTES
1. ALL WALL DIMENSION ARE TO FACE OF STUD UNLESS EXISTING.
 2. LOW WALL/MILLWORK ARE DIMENSIONED FINISH TO FINISH.
 3. G.C. TO VERIFY ALL AS-BUILT DIMENSIONS PRIOR TO STARTING WORK. DISCUSS DISCREPANCIES W/OWNER.
 4. ALL INTERIOR FINISHES SHALL BE IN COMPLIANCE WITH LOCAL BUILDING AND FIRE REGULATIONS.
 5. V.I.F.= VERIFY IN FIELD
 6. G.C. TO REALIGN AND ADJUST CLOSER'S AND HINGES ON ALL DOORS TO MEET ADA/ANSI REQUIREMENTS.
 7. G.C. TO PATCH AND REPAIR EXISTING WALLS AS NEEDED FOR NEW FINISHES.
 8. INSTALL NEW TACTILE EXIT SIGNAGE NEXT TO EXTERIOR DOORS.
 9. WATER RESISTANT WALLS (I.E. CERAMIC TILE, FRP, STAINLESS STEEL) ARE REQUIRED BEHIND ALL SINKS AND DISHWASHERS. MATERIAL TO BE A MINIMUM 8' HIGH.
 10. IT IS THE RESPONSIBILITY OF THE OWNER AND OWNER'S SEPARATE VENDOR TO VERIFY ALL QUANTITIES, AND SIZES.
 11. MAJOR AISLE WIDTHS SHALL BE A MINIMUM OF 36" OR MEET LOCAL STATE, ADA, AND ALL OTHER APPLICABLE CODES WHICH EVER IS GREATER.
 12. ACCESSIBLE SEATING TO BE 5% OF ALL SEATING LOCATIONS.. 400.320 (1). (10) SEATS X .05% = .5 SEATS REQUIRED.
 13. PORTABLE FIRE EXTINGUISHERS REQUIRED PER 2015 MBC SEC 906 AND NFPA 10. LOCATION TO BE DETERMINED BY FIRE INSPECTOR.

TAG KEY

ELEVATION TAG	SECTION TAG	SCOPE TAGS	WALL TAG	DOOR TAG	WINDOW TAG
SEE SHEET A-2				SEE SHEET A-1.1	SEE SHEET A-1.1

No.	Date	By	Notes
1	07.18.22	MB	PLAN SUBMITTAL TO CITY
2	08.04.22	JB	PLAN REVIEW REVISIONS

Drawn By: MB
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Scale: AS NOTED
Date: 6.12.22

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TECHNICAL GROUP, INC.
22 PARADISE HILLS, MI 48331
P: (248) 426-8001 F: (248) 426-7004

08/04/2022

PROJECT: TWO HANDS, 728 W BIG BEAVER RD, TROY, MI 48064

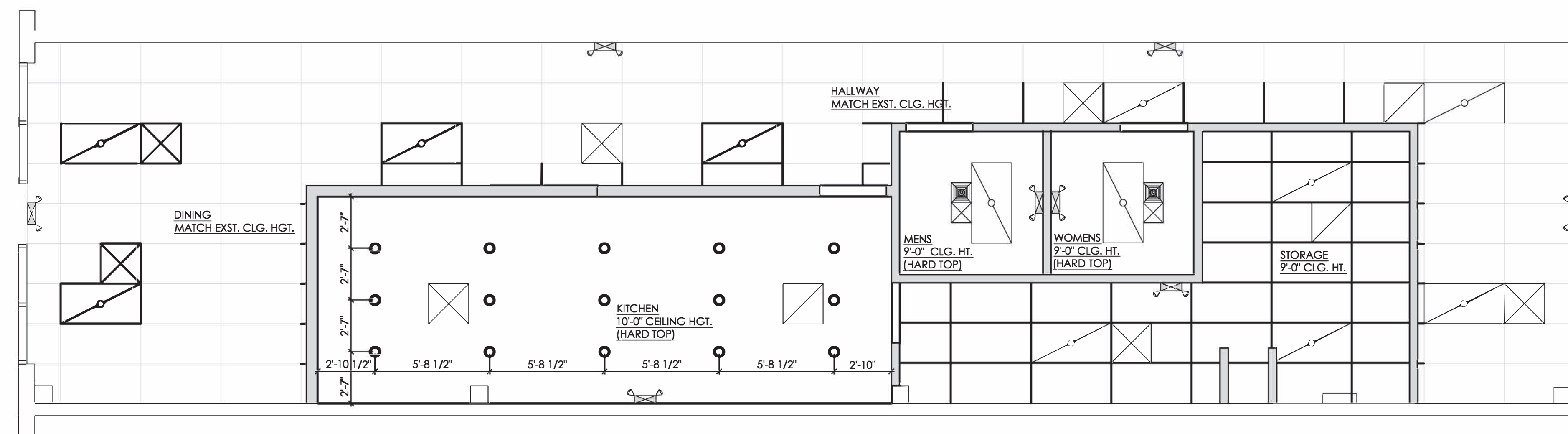
SHEET TITLE: DEMO AND PROPOSED FLOOR PLANS

DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

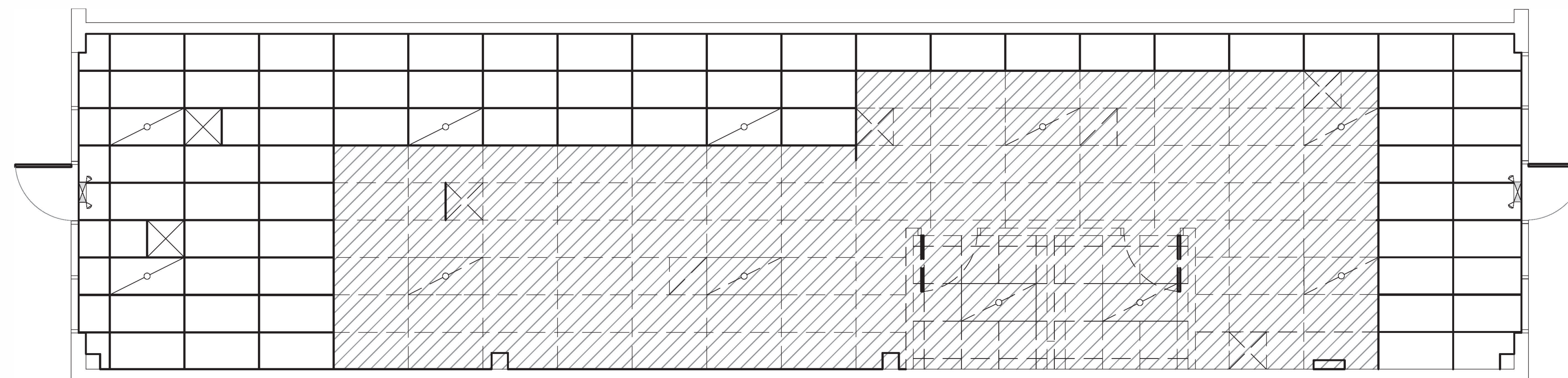
JOB #: TG-22715

SHEET: A-1

TAG KEY	ELEVATION TAG	SECTION TAG	DOOR TAG
	SEE SHEET A-2	SEE SHEET A-1	SEE SHEET A-1



1 PROPOSED REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



2 EXISTING REFLECTED CEILING PLAN - DEMO
SCALE: 1/4" = 1'-0"

CEILING SPECIFICATIONS	
ACT-2G	KITCHENZONE #BP672 AND BP675
LOCATION:	SERVICE AISLE/BACK OF HOUSE
MANUFACTURER:	ARMSTRONG
COLOR:	WHITE
GRID:	PRELUDE 15/16" EXPOSED TEE GRID (WHITE)
DIMENSION:	2'X4'X1/2" AND 2'X2'X1/2"
CONTACT:	ARMSTRONG STRATEGIC ACCOUNTS (800.442.4212)

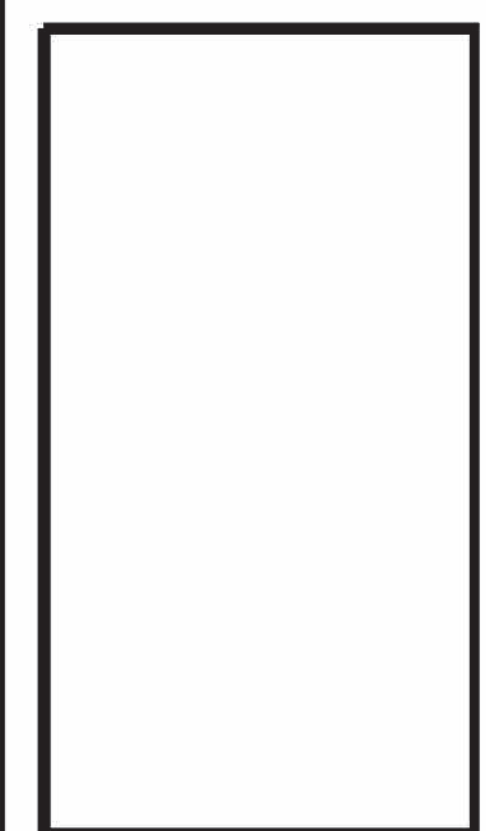
REFLECTED CEILING PLAN LEGEND	
	2'x4' ACT CEILING & GRID
	2' x 2' SUPPLY DIFFUSER EXISTING
	2' x 2' RETURN DIFFUSER EXISTING
	2'x4' PANEL LIGHTS - EXISTING
	EXIT LIGHTS (EMX) - VERIFY AND INSTALL IF NOT EXISTING
	2'x4' PANEL LIGHTS - DEMO
	RESTROOM EXHAUST FAN

GENERAL NOTES	
1.	REFLECTED CEILING PLAN IS INTENDED FOR LOCATION OF FIXTURES, AND COORDINATION. CEILING GRID DOES NOT NECESSARILY REFLECT ACTUAL GRID LOCATION.
2.	ALL CEILING HEIGHTS ARE EXISTING UNLESS OTHERWISE INDICATED.
3.	DO NOT INSTALL MECHANICAL, ELECTRICAL, OR PLUMBING DEVICES REQUIRING ACCESS ABOVE GYPSUM BOARD CEILINGS UNLESS ACCESS PANELS ARE PROVIDED. IN ALL CASES, LOCATE SUCH DEVICES ABOVE ACCESSIBLE CEILINGS OR INSTALL ACCESS PANELS.
4.	ALL LIGHT FIXTURE TRIM, SPEAKER GRILLS AND A/C DIFFUSERS ARE TO BE PAINTED TO MATCH CEILING IN ALL AREAS UNLESS NOTED OTHERWISE.
5.	ALL EXIT AND EMERGENCY LIGHTS ARE TO BE REPLACED AS PER CODE AND AS NECESSARY.
6.	ALL JOINTS, FASTENERS, AND OR SCREWS SHALL BE CONCEALED ON CEILING ELEMENTS.
7.	MINIMUM FOOTCANDLE LEVELS REQUIRED:
DINING ROOM:	• MAINTAINED AVERAGE FOOT-CANDLE REQUIREMENTS: 15 - 20FC (MEASURED ON TABLE UNDER THE LIGHT)
REST ROOMS:	• MAINTAINED AVERAGE FOOT-CANDLE REQUIREMENTS: 20 - 25FC (MEASURE AT SINK)
BACK OF HOUSE:	• MAINTAINED AVERAGE FOOT-CANDLE REQUIREMENTS: 55 - 60FC
	• MINIMUM FOOT-CANDLE REQUIREMENTS: 50FC (MEASURED AT WORK SURFACE)

No.	Date	By	Notes
1	07.18.22	MB	PLAN SUBMITTAL TO CITY
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Drawn By: MB
Checked: -
Scale: AS NOTED
Date: 6.12.22

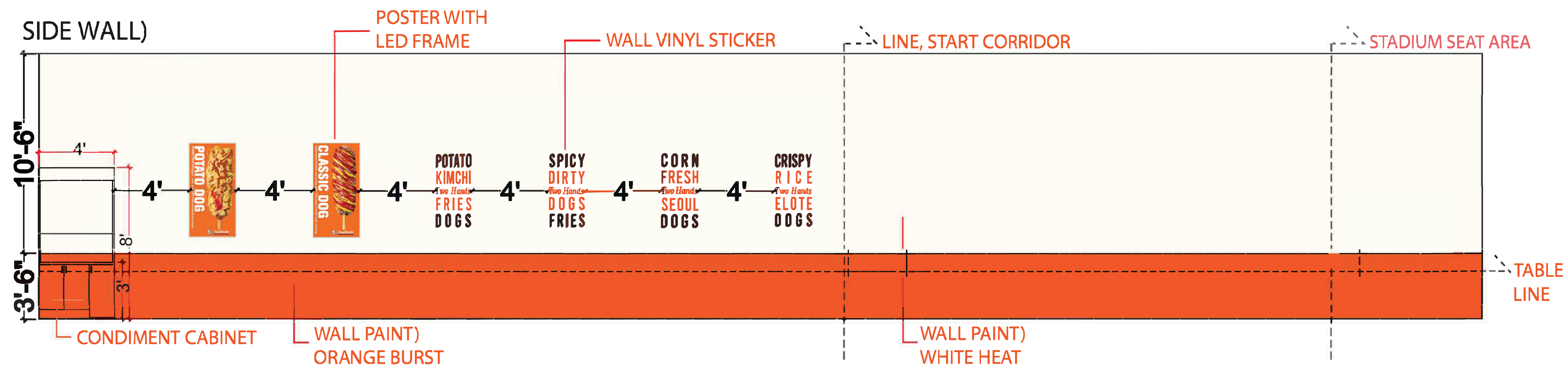
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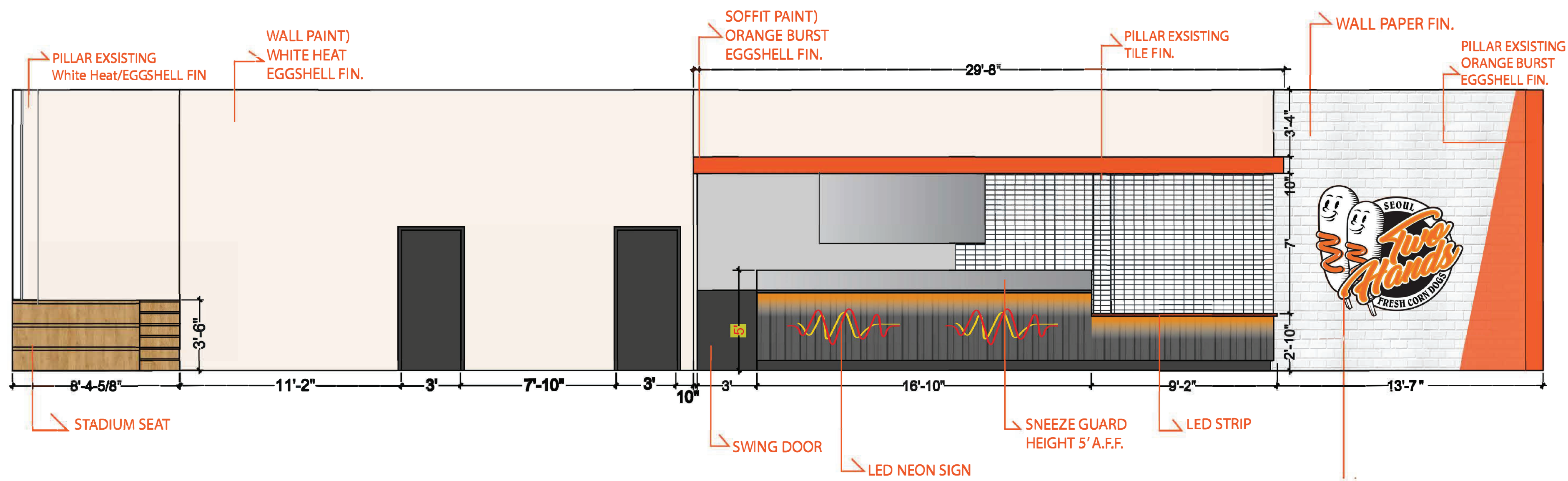
TECHNICAL GROUP INC.
22 FARMINGTON HILLS, MI 48331
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08/04/2022

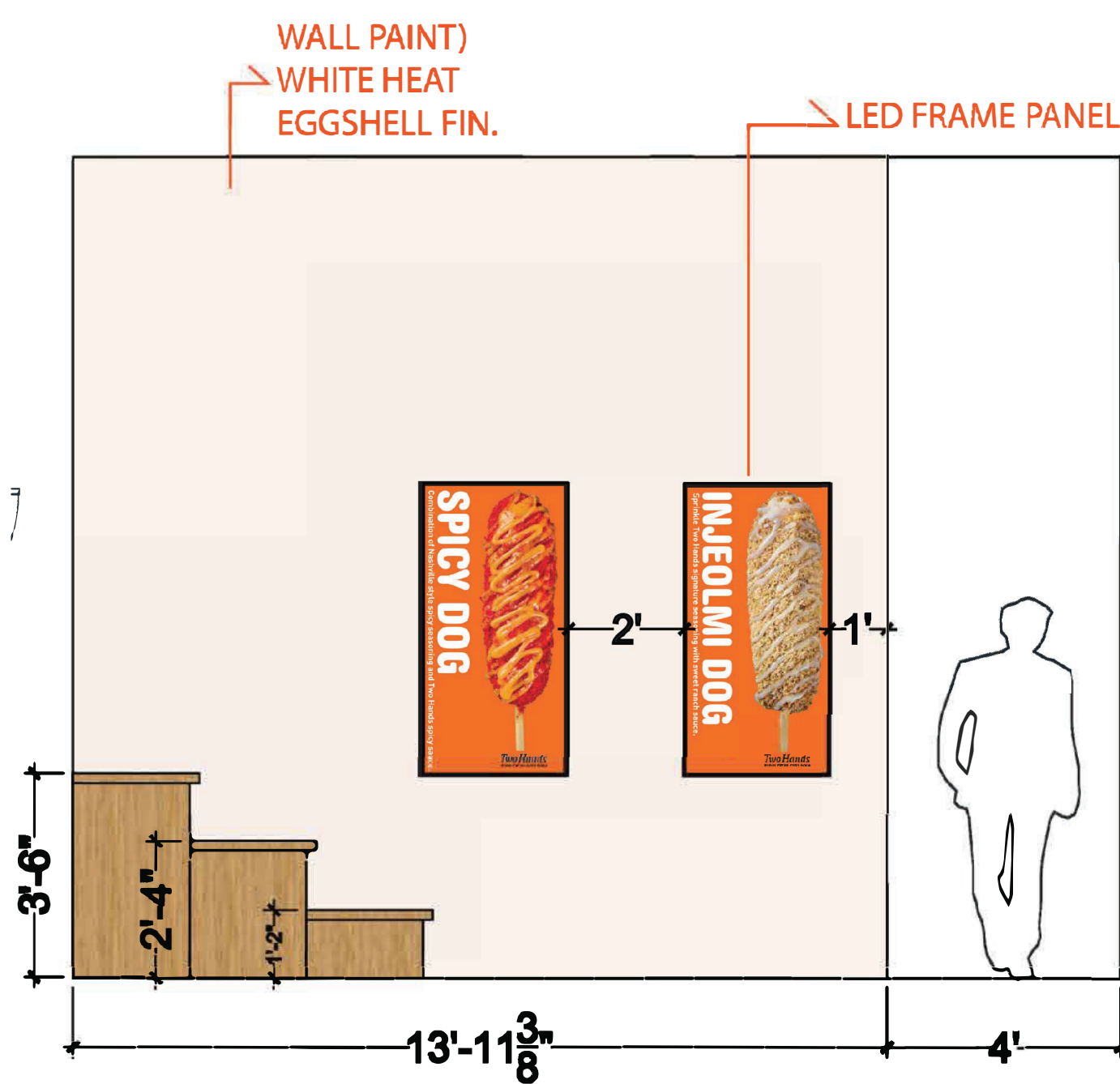
PROJECT TWO HANDS 728 W BIG BEAVER RD TROY, MI 48068	SHEET TITLE DEMO AND PROPOSED REFLECTED CEILING PLAN
DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.	
JOB # TG-22715	SHEET A-2



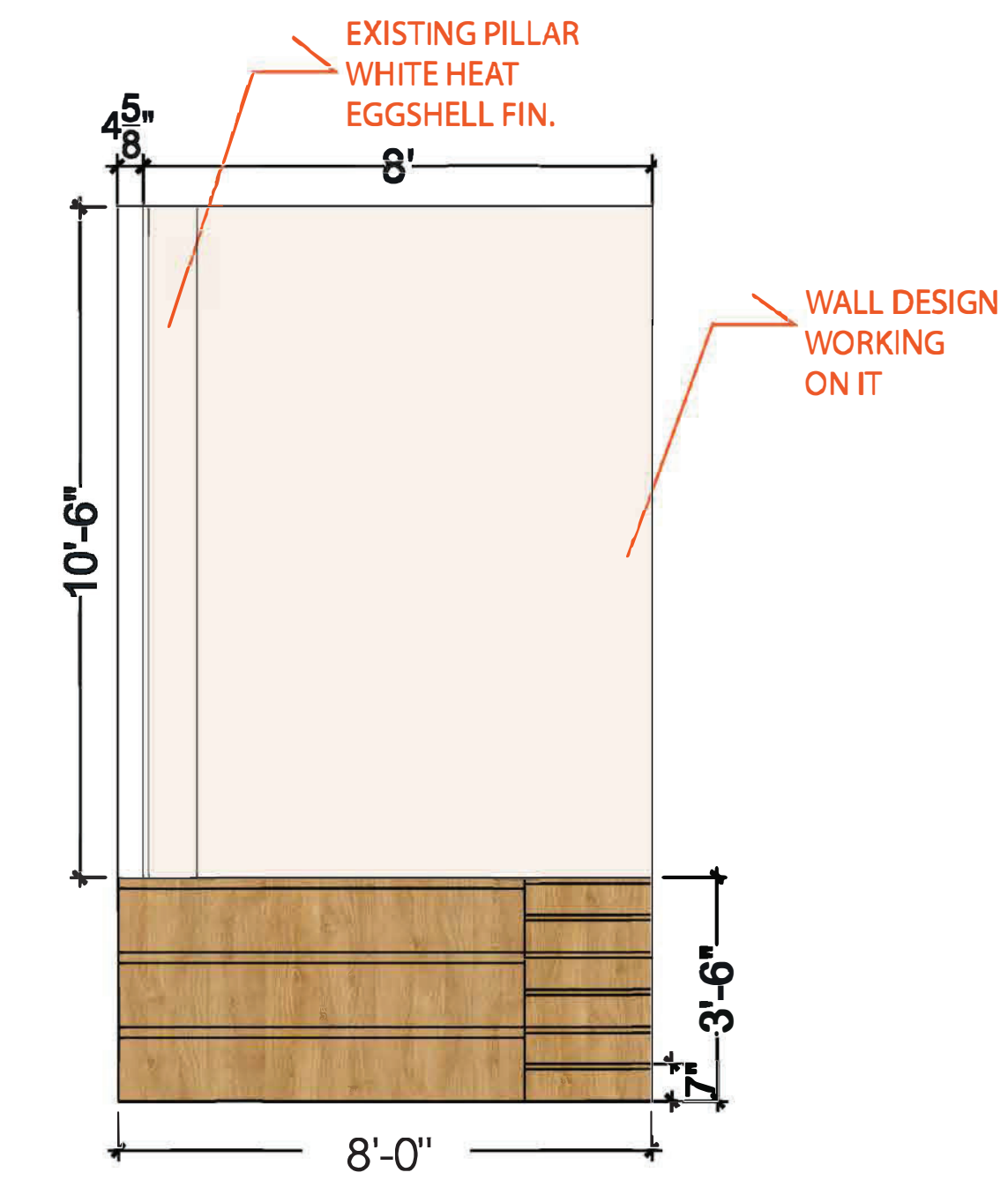
1 SIDE WALL ELEVATION
SCALE: 1/4" = 1'-0"



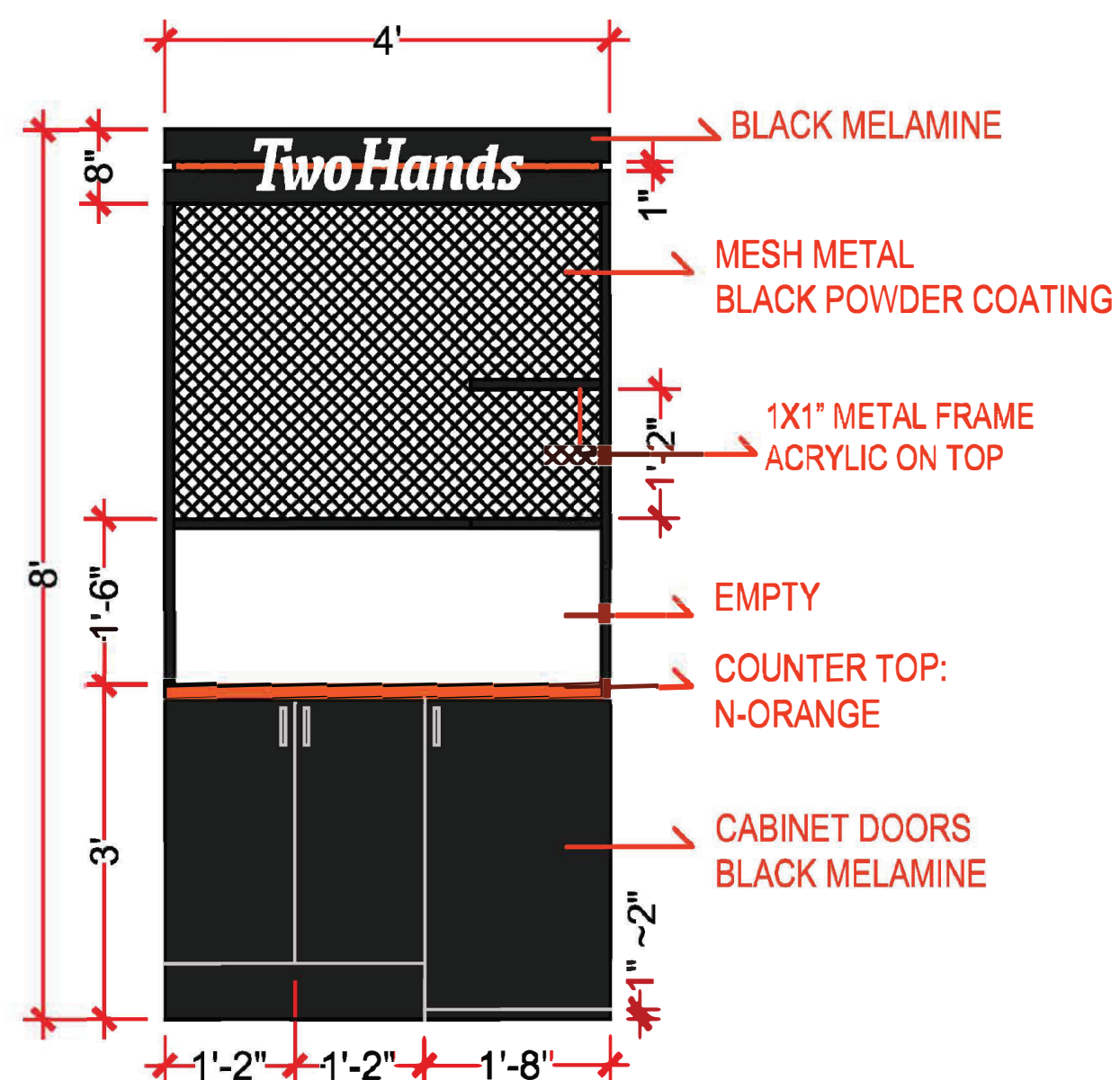
2 SERVICE COUNTER SIDE ELEVATION
SCALE: 1/4" = 1'-0"



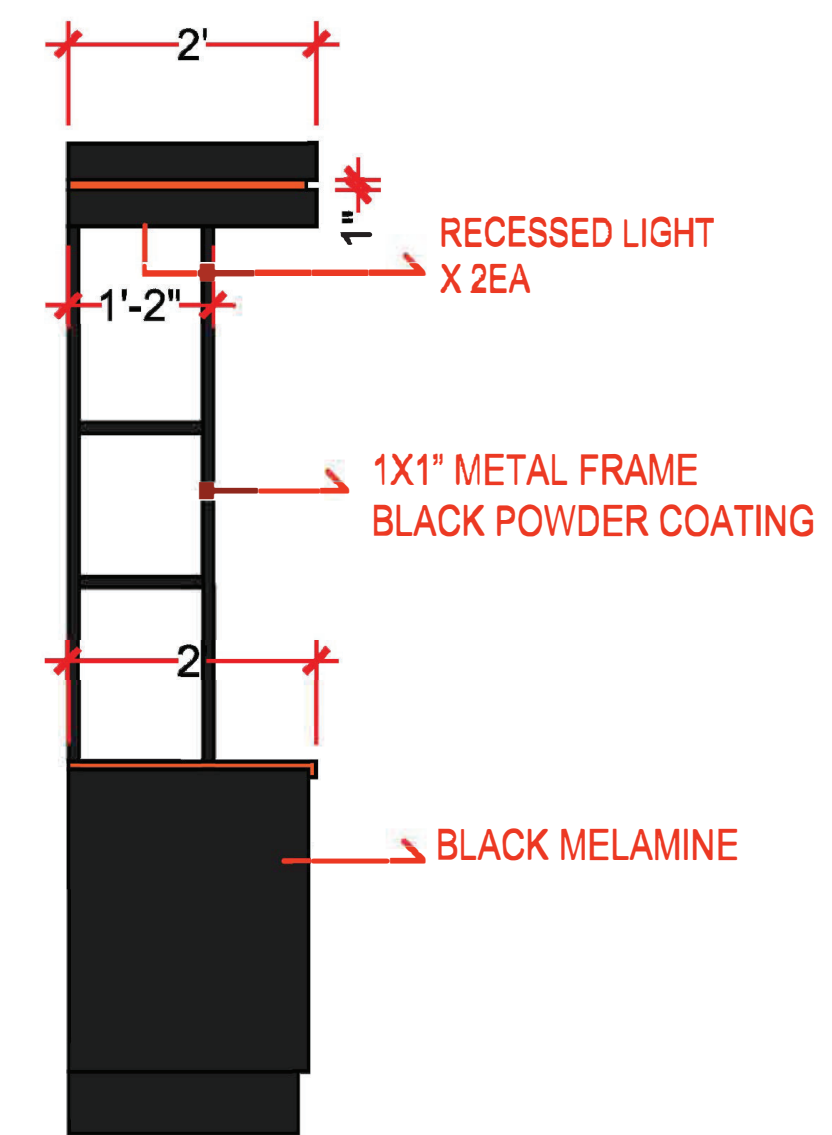
5 PROPOSED STADIUM SEATING SIDE ELEVATION
SCALE: 3/8" = 1'-0"



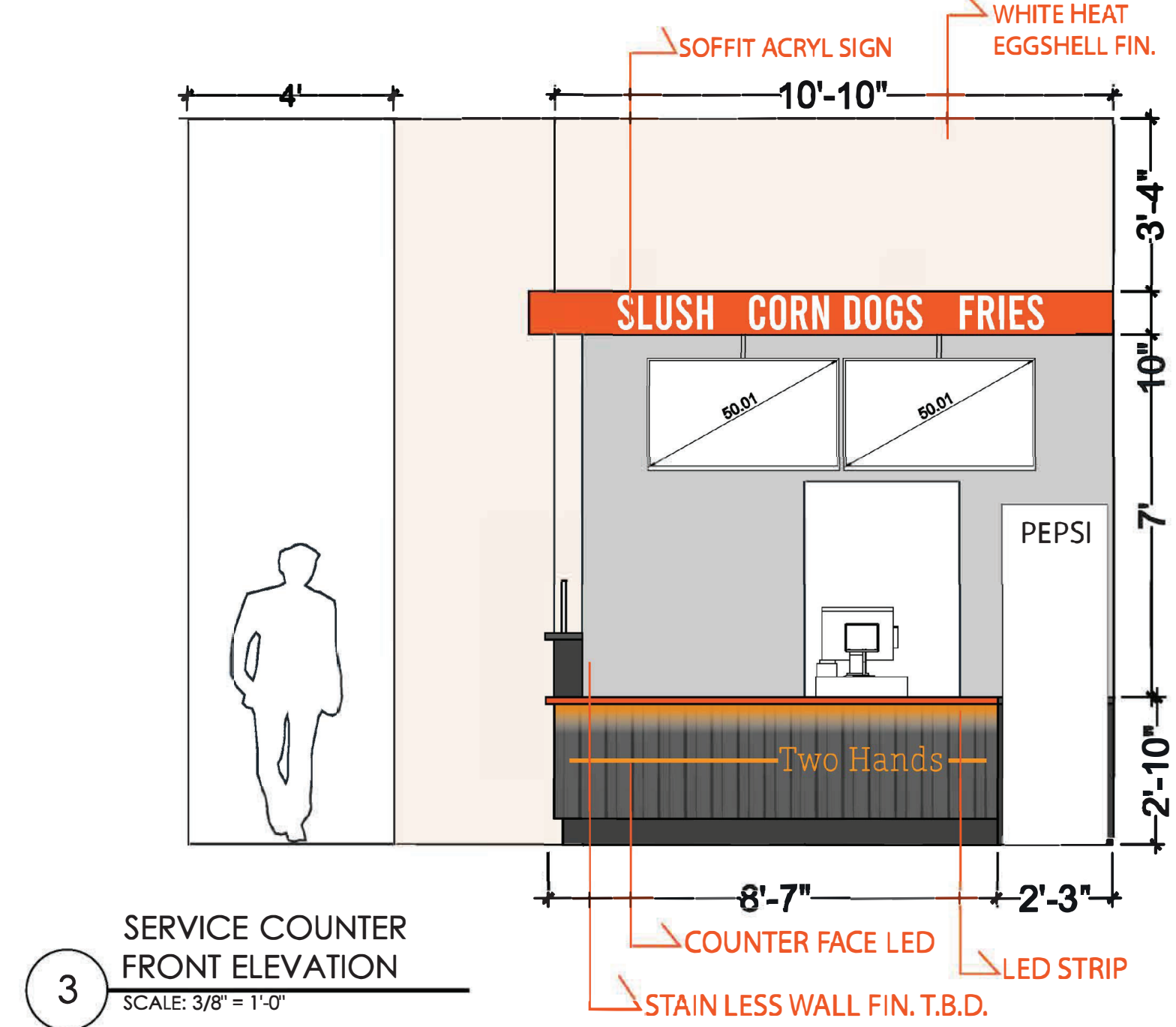
5 PROPOSED STADIUM SEATING FRONT ELEVATION
SCALE: 3/8" = 1'-0"



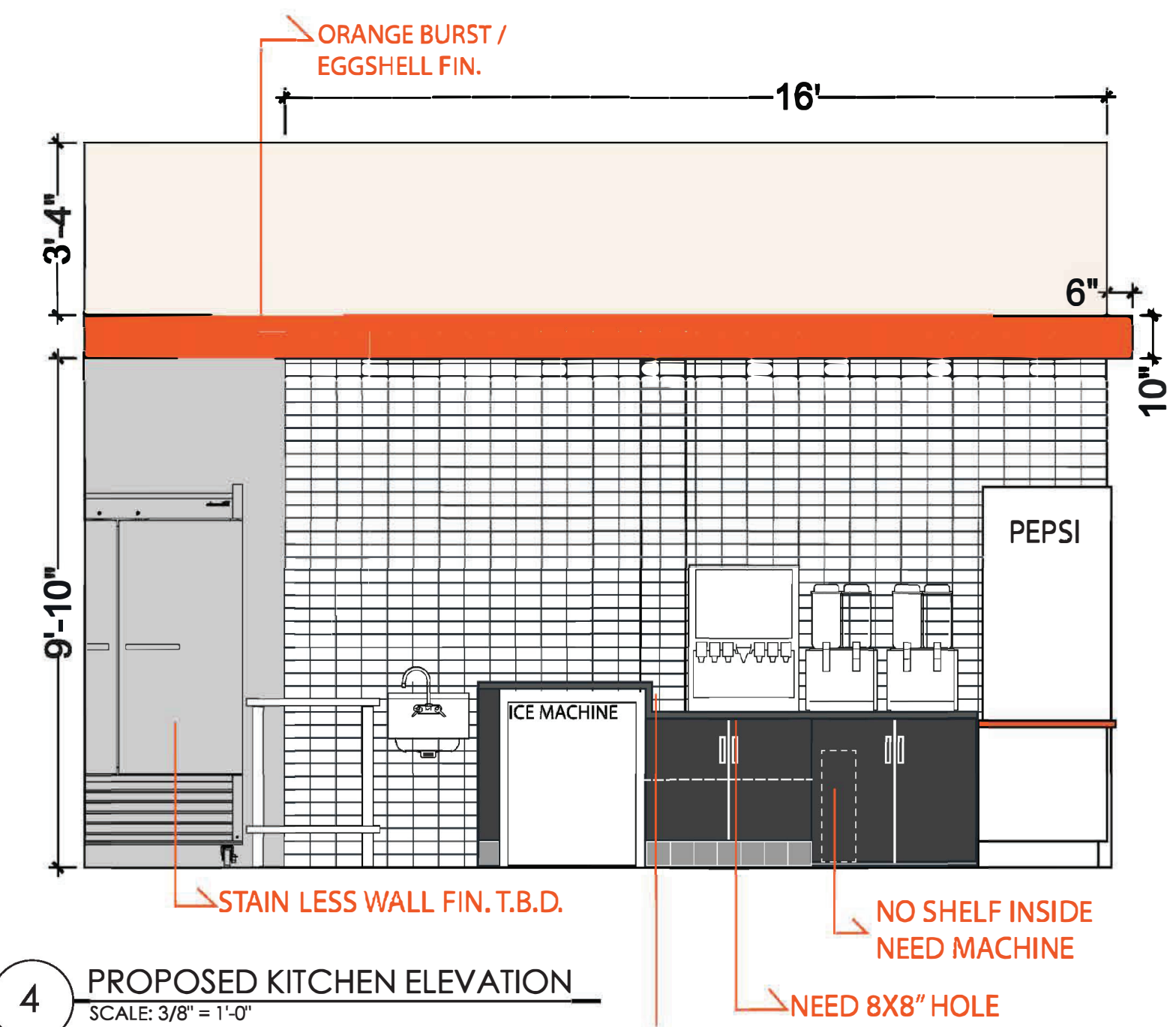
CONDIMENT CABINET FRONT ELEVATION
SCALE: N.T.S.



CONDIMENT CABINET SIDE ELEVATION
SCALE: N.T.S.



3 SERVICE COUNTER FRONT ELEVATION
SCALE: 3/8" = 1'-0"

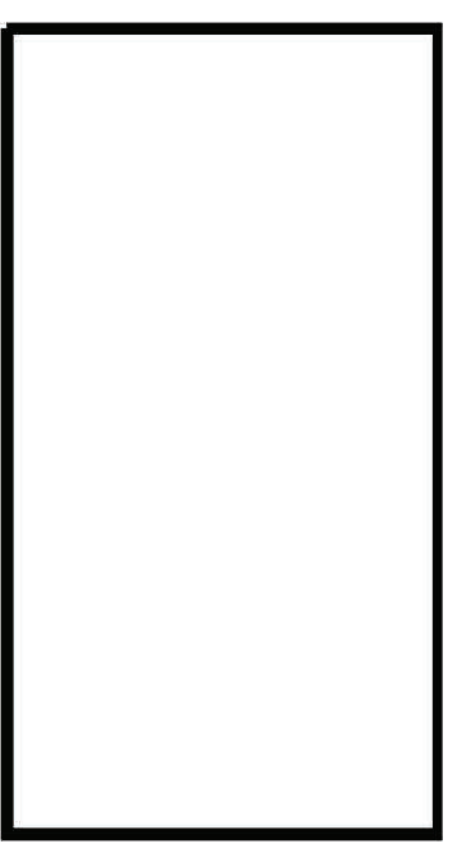


4 PROPOSED KITCHEN ELEVATION
SCALE: 3/8" = 1'-0"

GENERAL NOTES
1. Interior finishes, fixtures, and millwork must comply with smoke development and flame spread indices as listed per 2015 IBC Chapter 6.

SECTION TAG	SCOPE TAG	DOOR TAG	WINDOW TAG	MATERIAL TAG
▲	■	#	◇	AA-#
SEE SHEET A-1.1	SEE SHEET A-1.1	SEE SHEET A-1.1	SEE SHEET A-2/2.1	

No.	Date	By	Notes
1	07/18/22	MB	PLAN SUBMITTAL TO CITY
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22 PARSONS HILLS, MI 48331
P: (248) 426-6000 F: (248) 426-7004

08/04/2022

PROJECT
TWO HANDS
728 W BIG BEAVER RD
TROY, MI 48064

SHEET TITLE
PROPOSED INTERIOR ELEVATIONS

JOB #
TG-22715

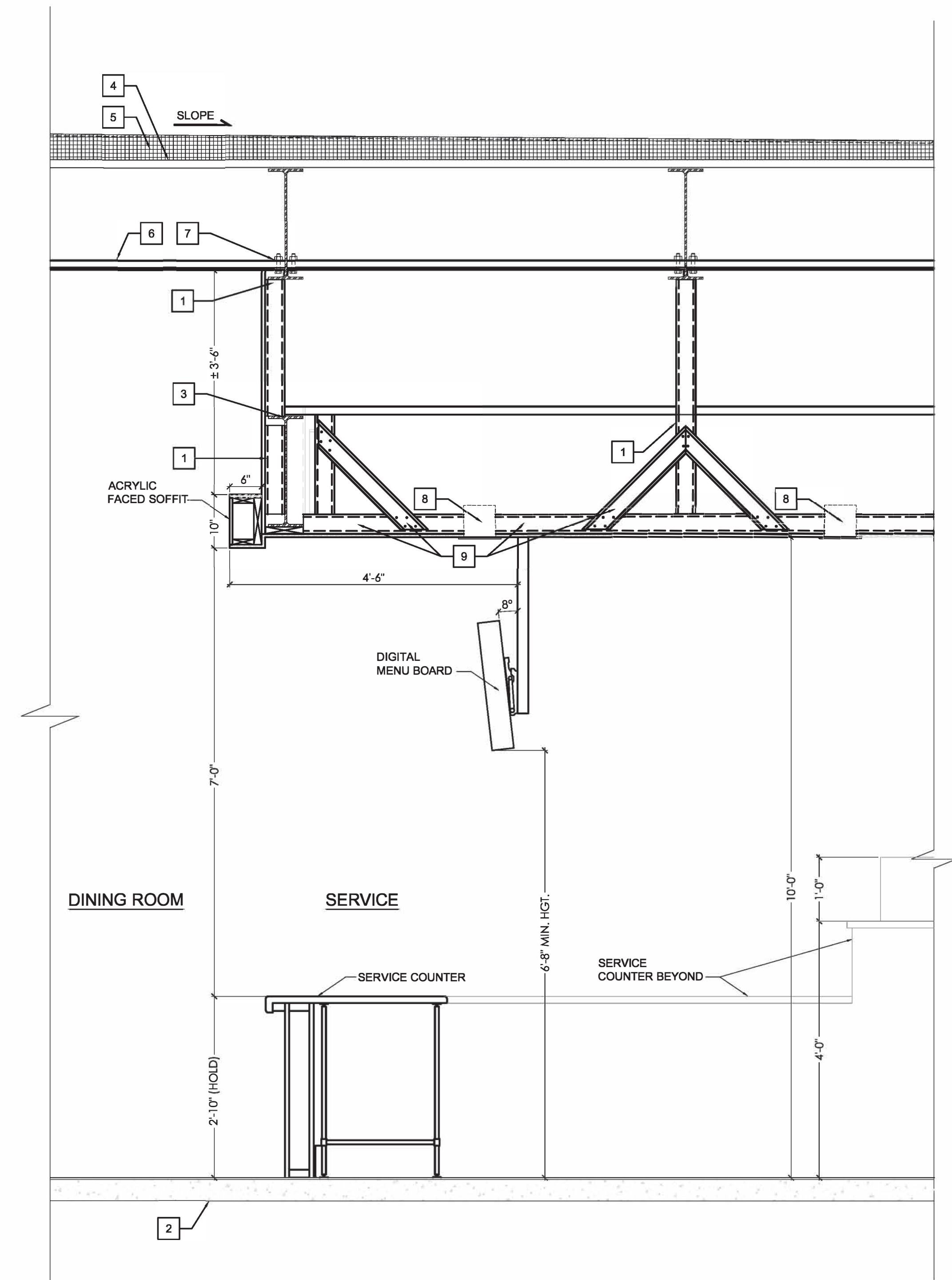
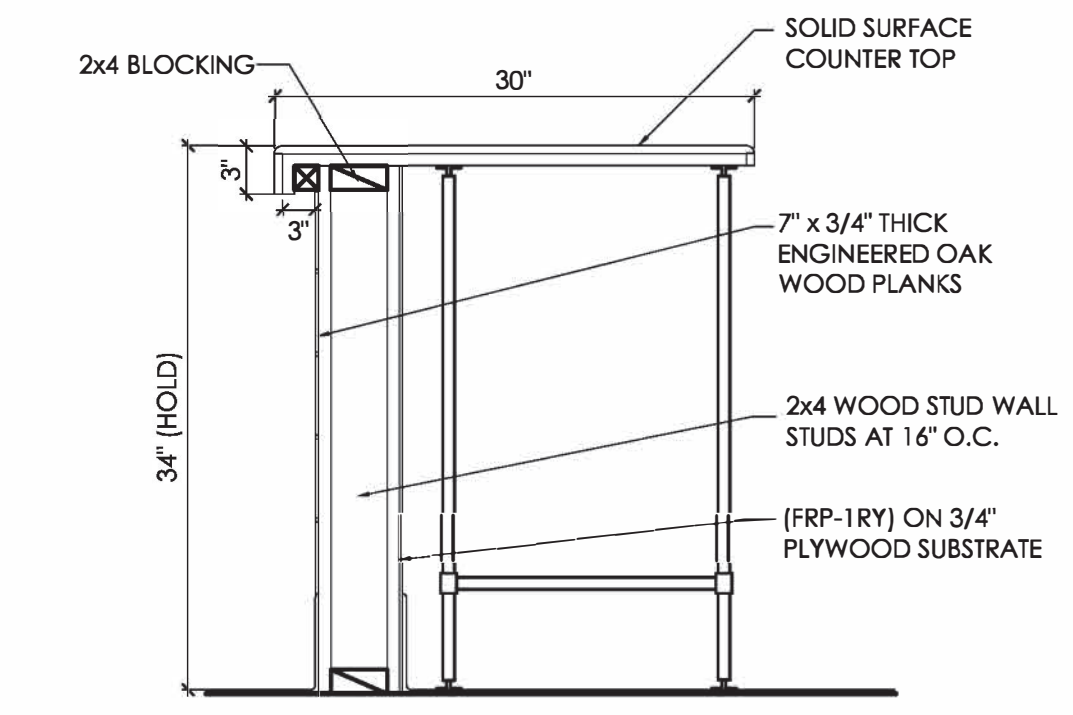
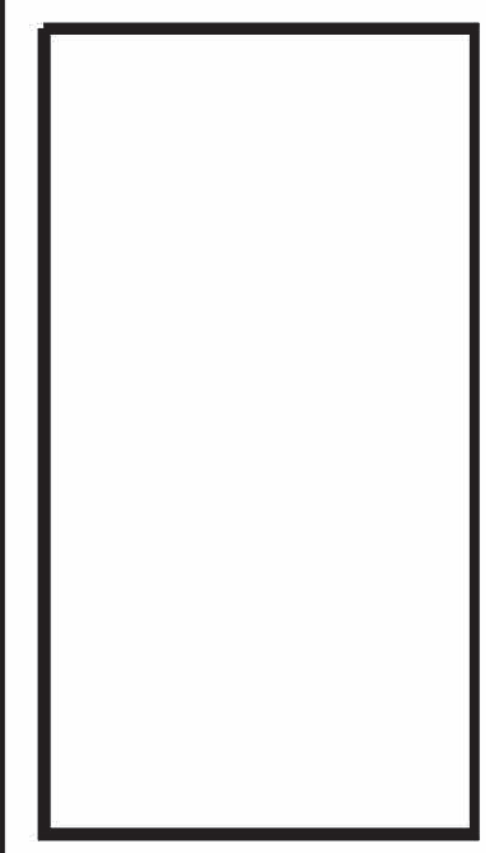
SHEET
A-3

DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

x WALL SECTION KEY NOTES:			
1.	STEEL TRACK		
2.	REFERENCE STRUCTURAL DRAWINGS FOR REINFORCEMENT REQUIREMENTS FOR THE SLAB, CURB AND FOUNDATION.		
3.	STEEL I-BEAM PER STRUCTURAL		
4.	METAL ROOF DECK PER STRUCTURAL		
5.	ROOFING AND ROOF INSULATION - REFER TO ROOF PLAN, SHEET A-5		
6.	PROVIDE HORIZONTAL "P1000" UNISTRUT AS REQUIRED FOR GYPSUM BOARD SUSPENSION SYSTEM. SECURE UNISTRUT TO BOTTOM CORD OF BAR JOIST WITH 1/2" THRU-BOLT.		
7.	SUPPORT UNISTRUT FOR DRYWALL SUSPENSION SYSTEM AT BEAM WITH UNISTRUT CLIP ANGLE. CONNECT TO STEEL BEAM WITH 0.144" SHOT.		
8.	REFER TO REFLECTED CEILING PLAN AND DECOR DRAWINGS FOR LIGHTING SPECIFICATIONS AND LOCATIONS.		
9.	SOFFIT FRAMING WITH 3-5/8" STEEL STUDS AT 24" O.C. PROVIDE DIAGONAL REINFORCEMENT @ 48" O.C.		

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2	08.04.22	JB	PLAN REVIEW REVISIONS

Drawn By: MB
Checked: -
Scale: AS NOTED
Date: 6.12.22



1 PROPOSED SOFFIT DETAIL
SCALE: 3/4" = 1'-0"

TECHNICAL GROUP, INC.
272 PARSONS HILLS, MI 48331
P: (248) 426-6000 F: (248) 426-7004

08/04/2022

PROJECT
TWO HANDS
728 W BIG BEAVER RD
TROY, MI 48064

SHEET TITLE
PROPOSED SOFFIT DETAIL

DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

JOB #
TG-22715

SHEET
A-4

TAG KEY	ELEVATION TAG	SECTION TAG	DOOR TAG
	SEE SHEET A-2	SEE SHEET A-1	SEE SHEET A-1

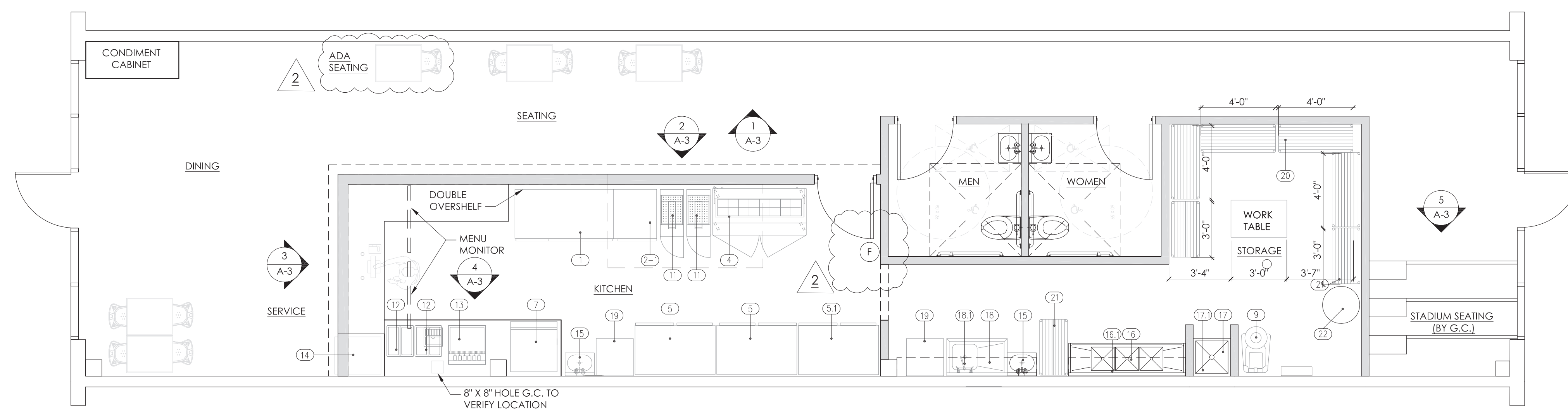
X# EQUIPMENT SCHEDULE

ITEM NO.	QTY.	DESCRIPTION	MANUFACTURER/ MODEL	SIZE	Voltage	Phase	Amps	Kw	Connection type	C.W.	H.W.
1	1	UNDERCOUNTER REFRIGERATOR	BLUEAIR, BLUR60-HC	60 3/8"-33 1/16"-35 7/8"	115V/60Hz	1	4.9	-	NEMA 5-15 Plug	-	-
2.1	1	UNDERCOUNTER FREEZER	BLUEAIR, BLUF28-HC	27 1/2"-33 1/16"-35 7/8"	115V/60Hz	1	5	-	-	-	-
4	1	SANDWICH REFRIGERATOR	BLUEAIR, BLMT60-HC	6 3/8"-37 9/32"-44 1/4"	115V/60Hz	1	7.7	-	NEMA 5-15 Plug	-	-
5	2	REACH-IN REFRIGERATOR (BOTTOM-MOUNT)	BLUEAIR, BSR49-HC	54"-32 3/8"-82 3/8"	115V/60Hz	1	7	-	NEMA 5-15 Plug	-	-
5.1	1	REACH-IN FREEZER (BOTTOM-MOUNT)	BLUEAIR, BSF49-HC	54"-32 3/8"-82 3/8"	115V/60Hz	1	11.8	-	NEMA 5-15 Plug	-	-
7	1	ICE MAKER WITH BIN, CUBE-STYLE	BLUEAIR, BLUI-250A	30"-30"-38 1/2"	115V/60Hz	1	9	-	NEMA 5-15 Plug	3/8"	-
9	1	GLOBE MIXER	GLOBE, SP20	18 1/4"-19 1/2" 3/4"-1/2"	110V/60Hz	1	10	-	NEMA 6-20 Plug	-	-
11	2	ELECTRIC FRYER	IMPERIAL, IFS40-E	15-1/2" 30-1/2" 44-1/8"	208V/60Hz	3	39	14	-	-	-
12	2	ICETRO SLUSH MACHINE	ICETRO, SSM-280	15.6"-18.5"-35.4"	115V/60Hz	1	5	-	-	-	-
13	1	FOUNTAIN DRINK MACHINE	PEPSI, STUBBORN	24"-25"-32"	115V/60Hz	1	5	-	-	-	-
14	1	COOLER	PEPSI, PC8	19.63"-24.63"-74.25"	120V/60Hz	1	12.3	-	NEMA 5-15 Plug	-	-
15	2	HAND SINK, WALL MOUNT	Item #: 600HS172H	17"x15"x15"	-	-	-	-	-	-	-
16	1	NSF SINK, 3-COMPARTMENT	Item #: 600S3171718GLFT	60"x22.5"x12"	-	-	-	-	-	-	-
16.1	3	SINK FAUCET	Item #: 600FW48GWHLL	GOOSENECK	-	-	-	-	-	1/2"	1/2"
17	1	MOP SINK	EXISTING	-	-	-	-	-	-	-	-
17.1	1	MOP SINK FAUCET	EXISTING	-	-	-	-	-	-	-	-
18	1	PREP SINK	Item #: 600S1181818GRT	39"x24"x44"	-	-	-	-	-	-	-
18.1	1	PREP SINK FAUCET	Item #: 600FW48GWHLL	GOOSENECK	-	-	-	-	-	1/2"	1/2"
19	2	2X2' WORK TABLE	600T2424G	24"x24"	-	-	-	-	-	-	-
20	2	36" WIRE SHELVING UNIT	H-6812	36"-18"-63"	-	-	-	-	-	-	-
21	4	48" WIRE SHELVING UNIT	H-6814	48"-18"-63"	-	-	-	-	-	-	-
22	1	100 GAL. HOT WATER TANK	A.O. SMITH BTL-199 TRIM J	28" DIAMETER	120V/60Hz	1	15	-	-	-	-

GENERAL NOTES

- COOKING EQUIPMENT MUST BE INSTALLED ACCORDING TO NFPA 96 CHAPTER 12.
- COOKING EQUIPMENT UNDER THE ANSUL SYSTEM (OR COMPARABLE FIRE SUPPRESSION SYSTEM) MUST BE TETHERED TO ENSURE PROPER RE-PLACEMENT WHEN MOVED FOR CLEANING OR SERVICING PER NFPA 96 SEC. 12.1.2.3
- CO2 SENSORS MAY BE REQUIRED FOR SOFT DRINK/BEVERAGE DISPENSING SYSTEM PER IFC 2015 SEC. 5307.5.2, INCLUDING AT ALL JOINTS AND CONNECTIONS FROM THE TANK TO THE DISPENSER. VERIFY WITH FIRE DEPARTMENT.

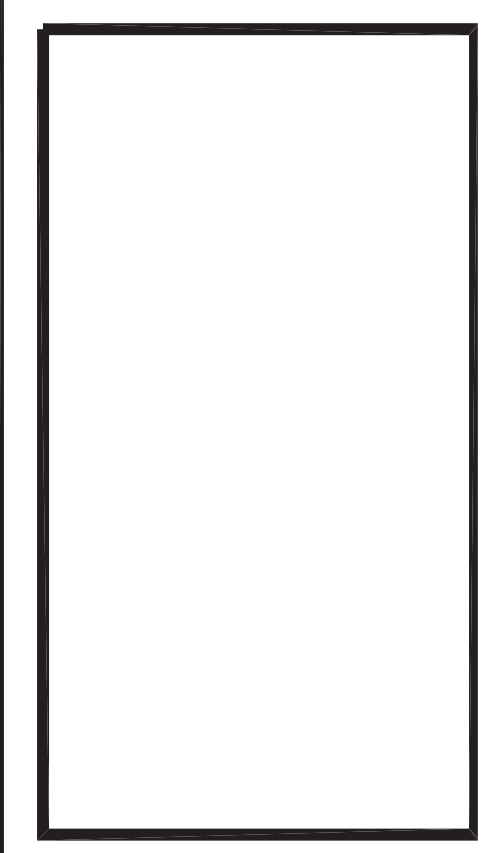
CLASS K PORTABLE FIRE EXTINGUISHERS MUST BE INSTALLED PER NFPA 96 SEC. 10.1.0 AND NFPA 10.



1 PROPOSED EQUIPMENT PLAN
SCALE: 1/4" = 1'-0"

No.	Date	By	Notes
1	07.18.22	MB	PLAN SUBMITTAL TO CITY
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TECHNICAL GROUP, INC.
P: (248) 426-5000 F: (248) 426-7004

STATE OF MICHIGAN
JAMES S. DOUGLASSON
REGISTERED PROFESSIONAL ENGINEER
NO. 88981
EXPIRES 12/31/2025

08/04/2022

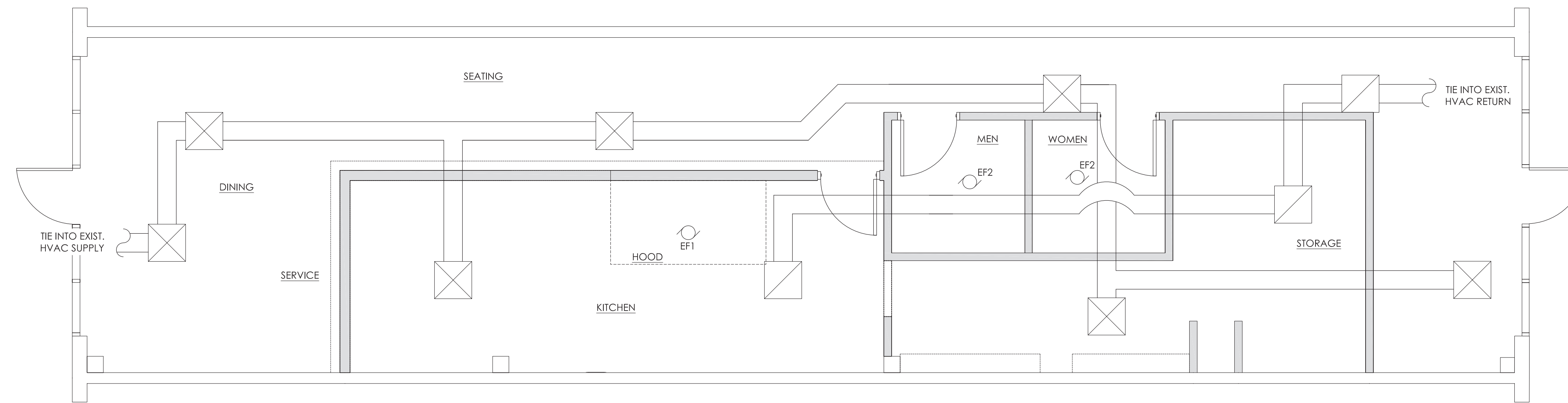
PROJECT
TWO HANDS
728 W BIG BEAVER RD
TROY, MI 48064

SHEET TITLE
PROPOSED EQUIPMENT PLAN

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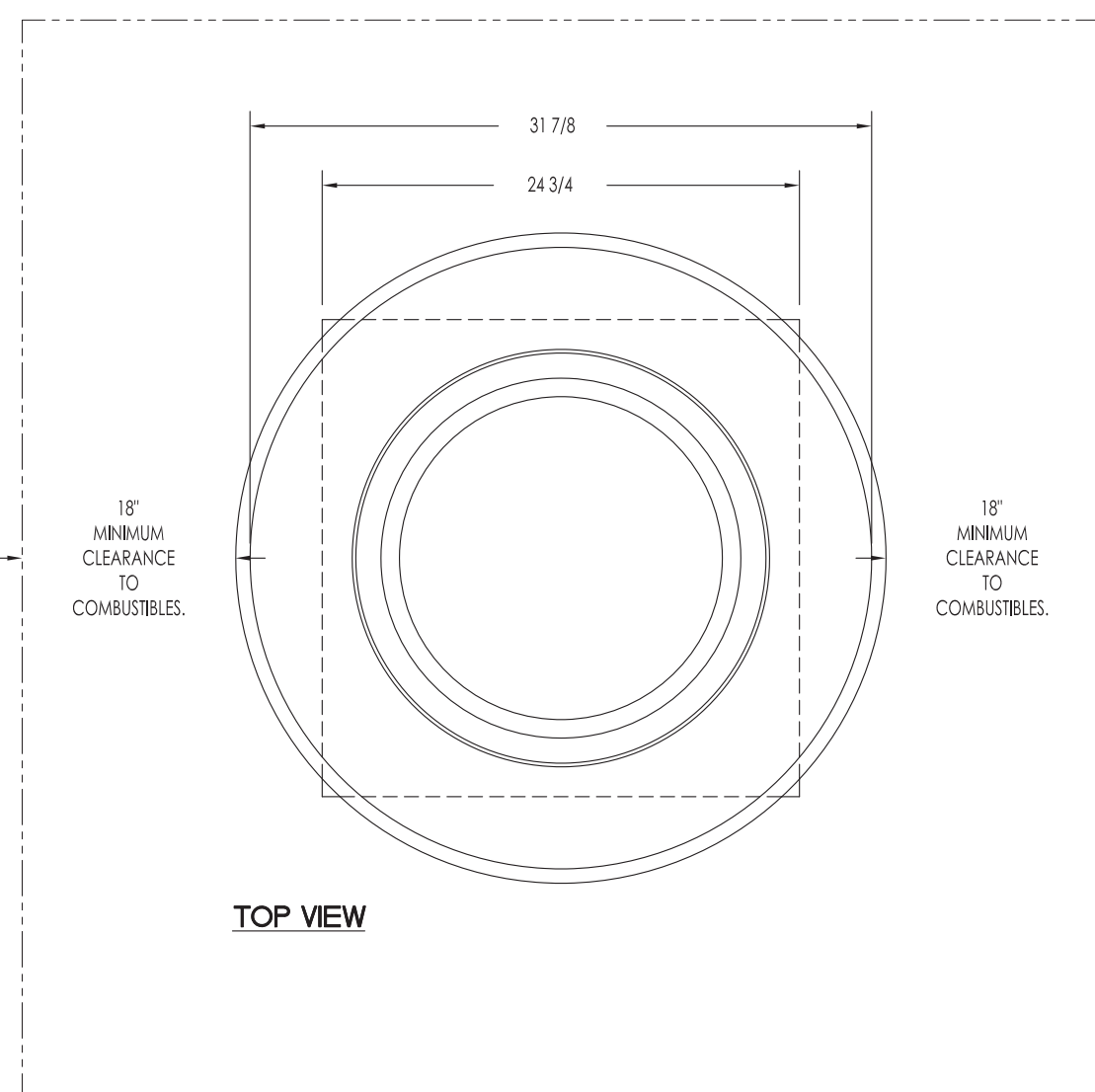
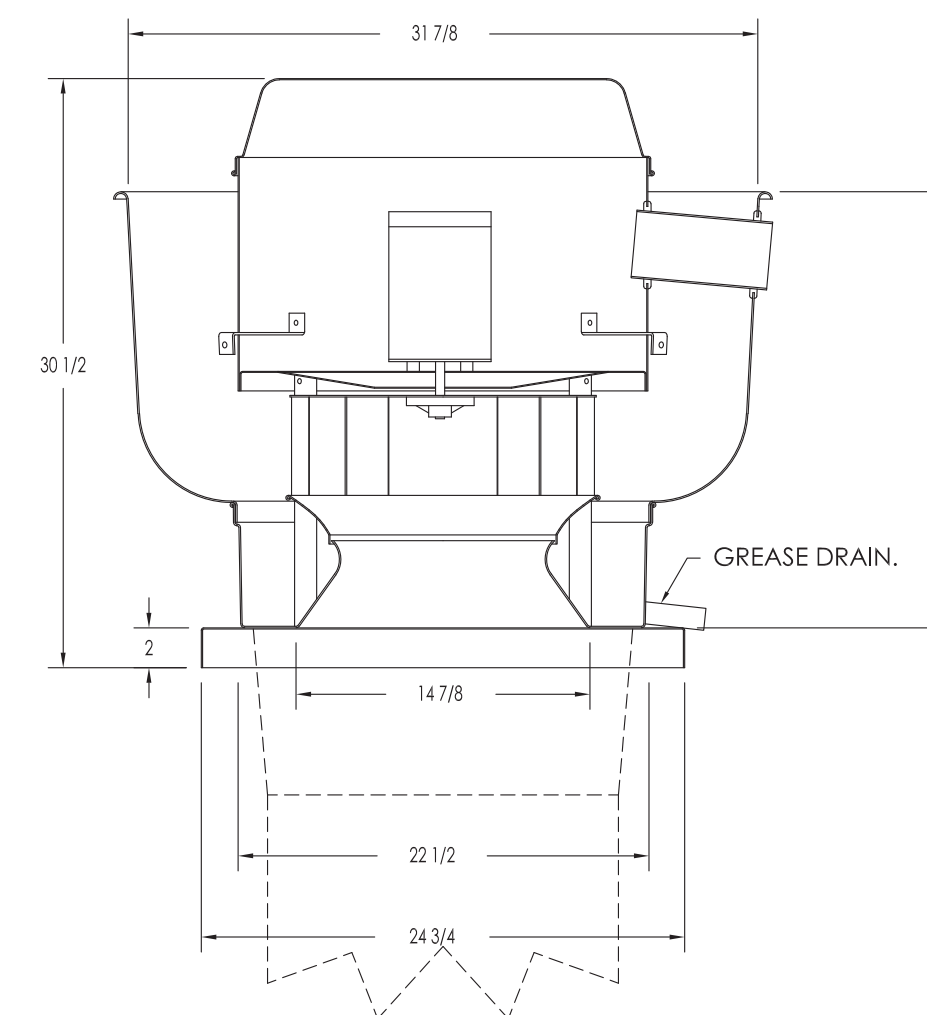
JOB #
TG-22715

SHEET
EQ-1



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

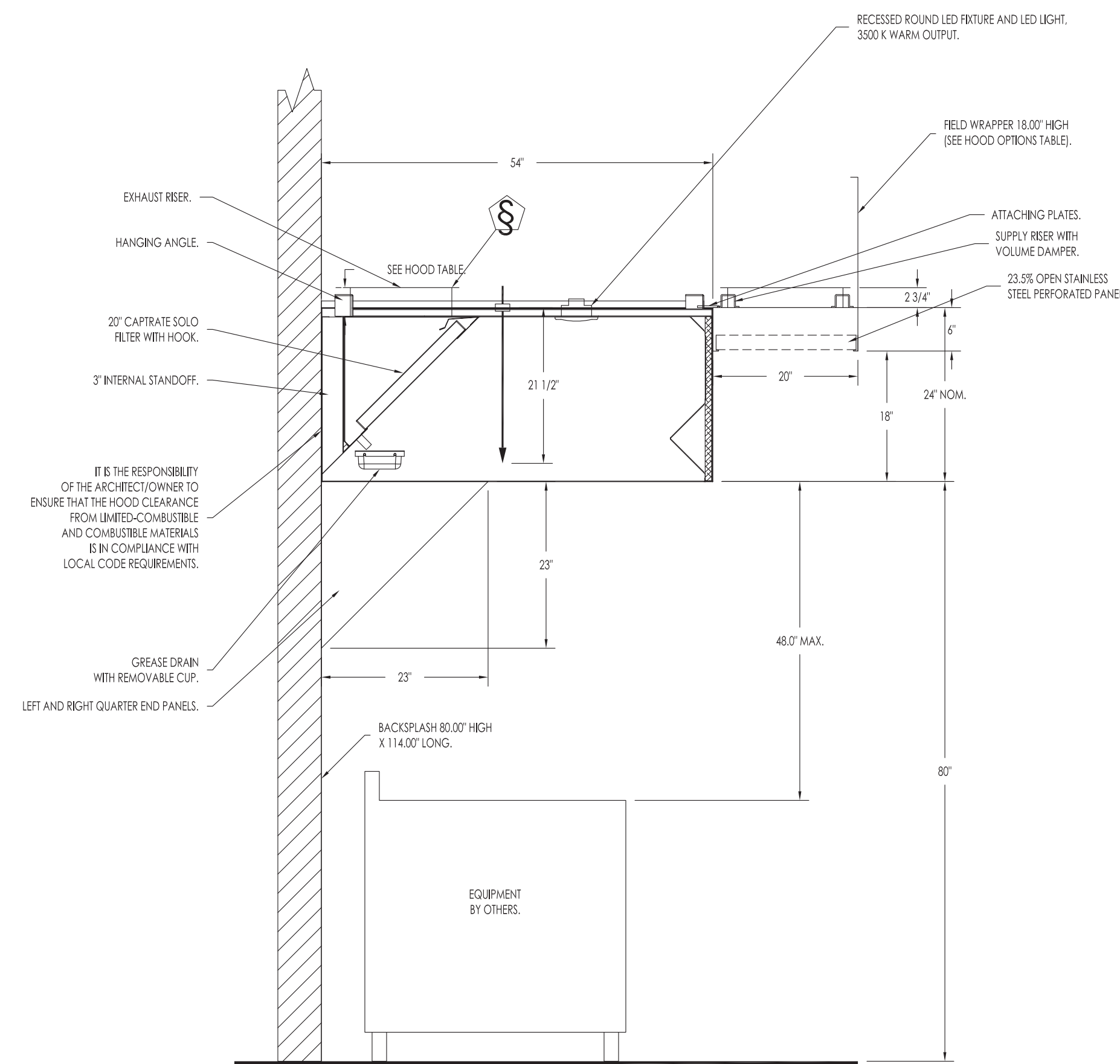
HVAC LEGEND			
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SUPPLY AIR DIFFUSER		SMOKE DETECTOR
	RETURN AIR GRILLE		CO2 DETECTOR
	EXHAUST GRILL / FAN		HUMIDITY SENSOR
	VOLUME DAMPER		DUCT REDUCTION
	THERMOSTAT		DIRECTION OF FLOW



3 EXHAUST FAN DETAIL
SCALE: N.T.S.

AIR BALANCE SCHEDULE						
TAG #	SUPPLY AIR	OUTSIDE AIR	RETURN AIR	EXHAUST AIR	BLDG. PRESSURE	%OUTSIDE AIR
RTU	2400	480	1920	---	+480	20%
MAU	1800	1800	---	---	+1800	100%
EF-1	---	---	---	1800	-1800	---
EF-2	---	---	---	200	-200	---
TOTAL	4200	2280	1920	2000	+200	---

- ### GENERAL NOTES
- ALL MECHANICAL WORK SHALL COMPLY WITH LOCAL APPLICABLE CODE AND UNIFORM MECHANICAL CODE.
 - ADJUST DAMPER ON AIR INLET TO 20% ON EXISTING RTUS.
 - CONTRACTOR SHALL INSTALL ALL DUCTWORK TO SUIT THE STRUCTURAL CONDITION. PROVIDE ALL NECESSARY OFFSETS AS REQUIRED.
 - DUCT INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF UNIFORM MECHANICAL CODE.
 - DUCTWORK SHALL BE CONSTRUCTED, ERECTED, AND TESTED IN ACCORDANCE WITH THE LATEST EDITION OF THE UNIFORM MECHANICAL CODE.
 - CONTRACTOR TO CHECK ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING DIFFUSER RETURN AIR REGISTER & CEILING EQUIPMENT ETC.
 - PROVIDE ACCESS PANELS FOR ALL EQUIPMENT CONCEALED IN ACCESSIBLE SPACES TO THE OUTSIDE UNLESS PROHIBITED BY CODE.
 - ALL CONDENSATE DRAINS SHALL BE TRAPPED AND PIPED TO THE APPROVED RECEPTOR. DRAINS SHALL SLOPE AT NOT LESS THAN 1/8" PER FOOT (1%).
 - EXHAUST OUTLETS SHALL TERMINATE IN ACCORDANCE WITH THE REQUIREMENTS OF UMC CHAPTER 3, AND 10'-0" ABOVE GRADE.
 - OUTSIDE AIR INTAKE SHALL BE 10'-0" AWAY OR 3'-0" BELOW ANY APPLIANCE VENT OUTLET OR EXHAUST FAN DISCHARGE OR PLUMBING.
 - CONTRACTOR SHALL INSTALL THE EQUIPMENT OR SYSTEM PER MANUFACTURER'S INSTALLATION RECOMMENDATION. CONSULT WITH MANUFACTURING COMPANY IF NECESSARY.
 - TEST & BALANCE ALL SYSTEMS ACCORDING TO CM INDICATED ON PLANS.
 - ALL MECHANICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE IN ANY DIRECTION PER BUILDING CORE OR MANUFACTURER'S REQUIREMENTS OR AS INDICATED BELOW, (WHICHEVER IS MORE RESTRICTIVE)
 - WHEN DETECTION OR ALARM SYSTEMS ARE PROVIDED FOR THE BUILDING, ANY REQUIRED SMOKE DETECTORS SHALL BE SUPERVISED BY SUCH SYSTEM ACTIVATING THE FIRE ALARM SYSTEM.
 - PROVIDE ADEQUATE CLEANOUT OPENINGS FOR THROUGH CLEANING OF DUCT SYSTEM.
 - ANY PENETRATIONS THROUGH THE EXISTING ROOF ASSEMBLY TO BE PERFORMED/PATCHED BY THE LANDLORD'S SPECIFIED ROOFING
 - BUILDING HEATING AND VENTILATING CONTRACTOR TO MECHANICALLY VENT ALL RESTROOMS UNDER THE GENERAL CONTRACT.
 - ALL ROOF MOUNTED MECHANICAL EQUIPMENT SHALL BE LABELED WITH THE TENANTS NAME AND THE ELECTRICAL CIRCUIT INFORMATION.
 - HOOD AND MAKE-UP AIR TO BE DESIGNED ACCORDING TO 2015 MMC SEC. 507 AND NFPA 96 CHAPTER 8.
 - HOOD/MAKE-UP AIR SYSTEM AND ANSUL SYSTEM MUST BE OPERATED, MAINTAINED, AND TESTED ACCORDING TO NFPA 96 CHAPTER 11.



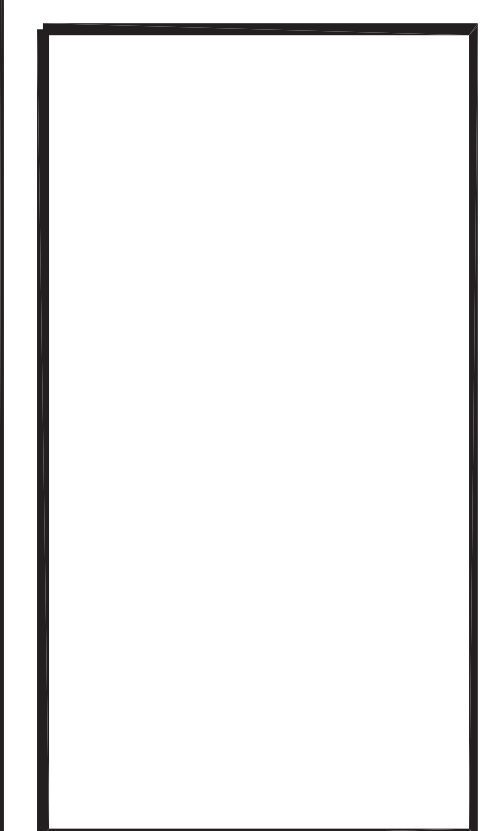
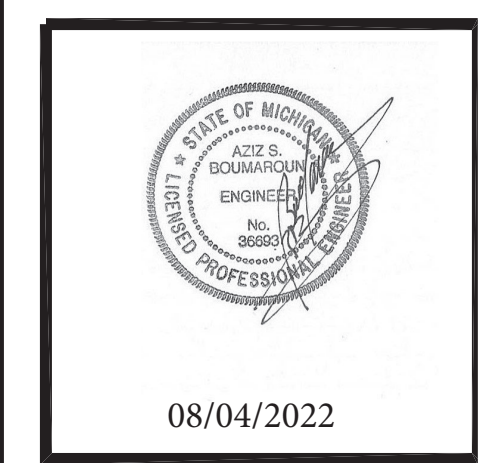
2 EXHAUST HOOD DETAIL
SCALE: N.T.S.

HOOD INFORMATION																			
HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)					TOTAL SUPPLY CFM	HOOD CONSTRUCTION	HOOD CONFG END TO END	ROW	
										WIDTH	LENG	HEIGHT	DIA	CFM					VEL
1		5424 ND-2-PSP-F	CAPTIVEAIRE	8' 6"	600 DEG	I	HEAVY	212	1800		4"	14"	1800	1684	-0.698"	1800	430 SS WHERE EXPOSED	ALONE	ALONE

EXHAUST FAN INFORMATION																
FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1		1	DU85HFA	CAPTIVEAIRE	1800	1.250	1473	TEAO-ECM	1.000	0.5650	1	115	11.6	570 FPM	97	15

No.	Date	By	Notes
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2	08.04.22	JB	PLAN REVIEW REVISIONS

Drawn By: MB
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Date: 6.12.22

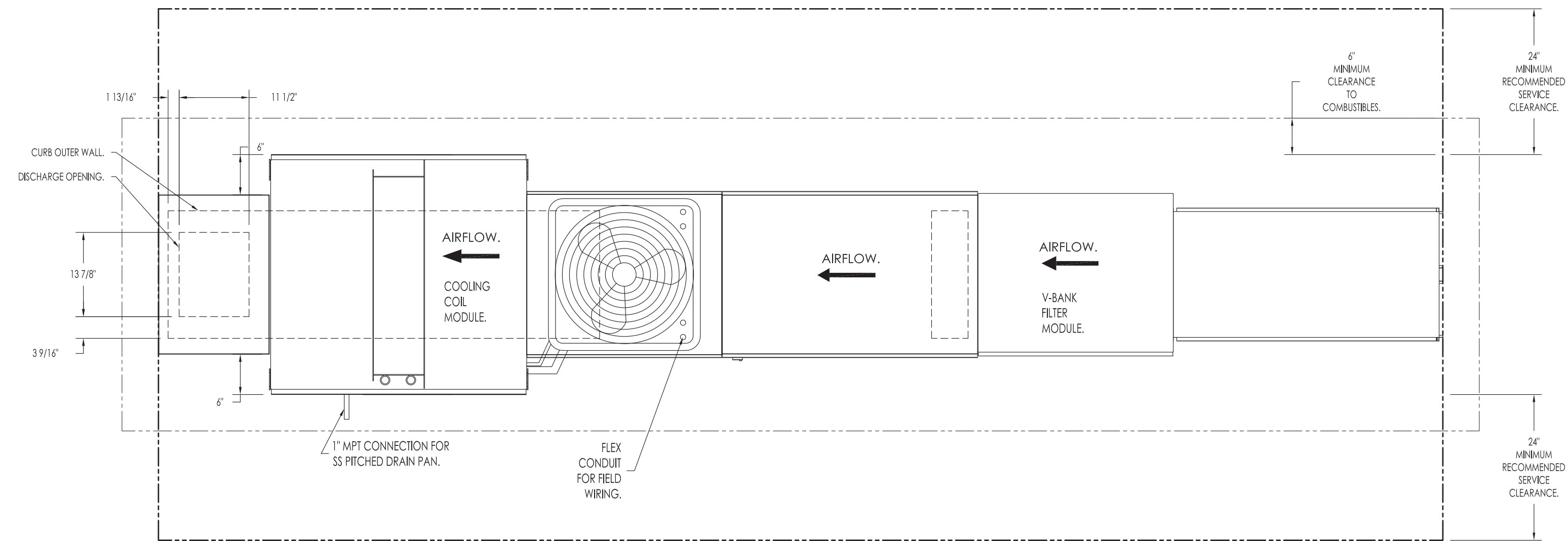
PROJECT: TWO HANDS, 728 W BIG BEAVER RD, TROY, MI 48064

SHEET TITLE: MECHANICAL PLAN

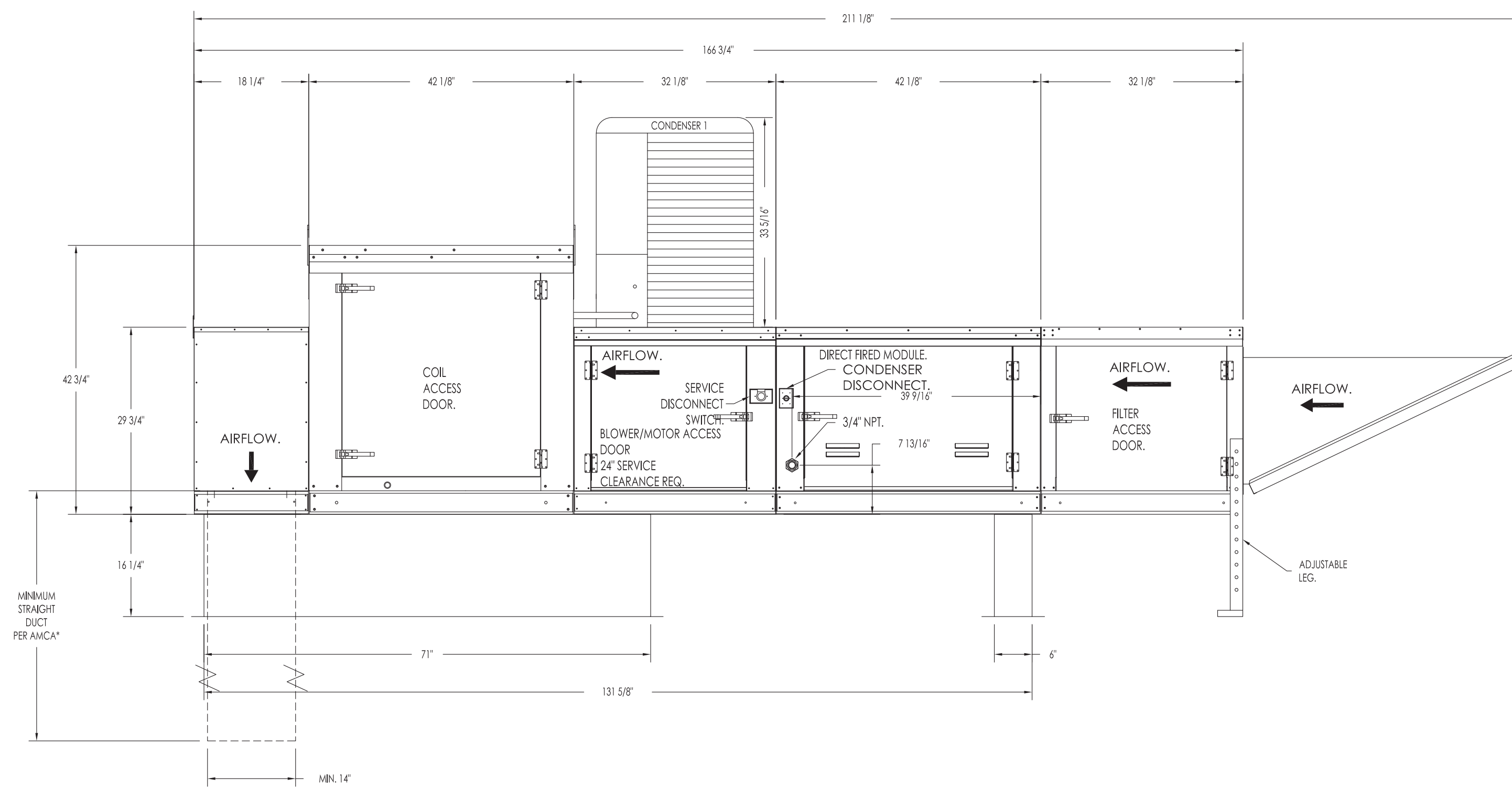
JOB #: TG-22715

SHEET: M1

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1 NEW MAU UNIT - TOP VIEW
SCALE: N.T.S.



2 NEW MAU UNIT - SIDE VIEW
SCALE: N.T.S.

OUTSIDE AIR CALCS

IMC - 2015, TABLE 403.1.1
 REQUIRED: 977.1 CFM
 PROVIDED: 1000 CFM

7.5 CFM/PERSON
 7.5 x 71 = 532.5 CFM

.18 CFM / SQ. FT.
 .18 x 2470 SF = 460 CFM

HVAC LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	SUPPLY AIR DIFFUSER		SMOKE DETECTOR
	RETURN AIR GRILLE		CO2 DETECTOR
	EXHAUST GRILL / FAN		HUMIDITY SENSOR
	VOLUME DAMPER		DUCT REDUCTION
	THERMOSTAT		DIRECTION OF FLOW

- ### GENERAL NOTES
- ALL MECHANICAL WORK SHALL COMPLY WITH LOCAL APPLICABLE CODE AND UNIFORM MECHANICAL CODE.
 - ADJUST DAMPER ON AIR INLET TO 20% ON EXISTING RTU'S.
 - CONTRACTOR SHALL INSTALL ALL DUCTWORK TO SUIT THE STRUCTURAL CONDITION. PROVIDE ALL NECESSARY OFFSETS AS REQUIRED.
 - DUCT INSULATION SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST EDITION OF UNIFORM MECHANICAL CODE.
 - DUCTWORK SHALL BE CONSTRUCTED, ERECTED, AND TESTED IN ACCORDANCE WITH THE LATEST EDITION OF THE UNIFORM MECHANICAL CODE.
 - CONTRACTOR TO CHECK ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING DIFFUSER RETURN AIR REGISTER & CEILING EQUIPMENT ETC.
 - PROVIDE ACCESS PANELS FOR ALL EQUIPMENT CONCEALED IN ACCESSIBLE SPACES TO THE OUTSIDE UNLESS PROHIBITED BY CODE.
 - ALL CONDENSATE DRAINS SHALL BE TRAPPED AND PIPED TO THE APPROVED RECEPTOR. DRAINS SHALL SLOPE AT NOT LESS THAN 1/8" PER FOOT (1%).
 - EXHAUST OUTLETS SHALL TERMINATE IN ACCORDANCE WITH THE REQUIREMENTS OF UMC CHAPTER 3, AND 10'-0" ABOVE GRADE.
 - OUTSIDE AIR INTAKE SHALL BE 10'-0" AWAY OR 3'-0" BELOW ANY APPLIANCE VENT OUTLET OR EXHAUST FAN DISCHARGE OR PLUMBING.
 - CONTRACTOR SHALL INSTALL THE EQUIPMENT OR SYSTEM PER MANUFACTURER'S INSTALLATION RECOMMENDATION. CONSULT WITH MANUFACTURING COMPANY IF NECESSARY.
 - TEST & BALANCE ALL SYSTEMS ACCORDING TO CM INDICATED ON PLANS.
 - ALL MECHANICAL EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE IN ANY DIRECTION PER BUILDING CORE OR MANUFACTURER'S REQUIREMENTS OR AS INDICATED BELOW. (WHICHEVER IS MORE RESTRICTIVE)
 - WHEN DETECTION OR ALARM SYSTEMS ARE PROVIDED FOR THE BUILDING, ANY REQUIRED SMOKE DETECTORS SHALL BE SUPERVISED BY SUCH SYSTEM ACTIVATING THE FIRE ALARM SYSTEM.
 - PROVIDE ADEQUATE CLEANOUT OPENINGS FOR THROUGH CLEANING OF DUCT SYSTEM.
 - ANY PENETRATIONS THROUGH THE EXISTING ROOF ASSEMBLY TO BE PERFORMED/PATCHED BY THE LANDLORD'S SPECIFIED ROOFING
 - BUILDING HEATING AND VENTILATING CONTRACTOR TO MECHANICALLY VENT ALL RESTROOMS UNDER THE GENERAL CONTRACT.
 - ALL ROOF MOUNTED MECHANICAL EQUIPMENT SHALL BE LABELED WITH THE TENANTS NAME AND THE ELECTRICAL CIRCUIT INFORMATION.

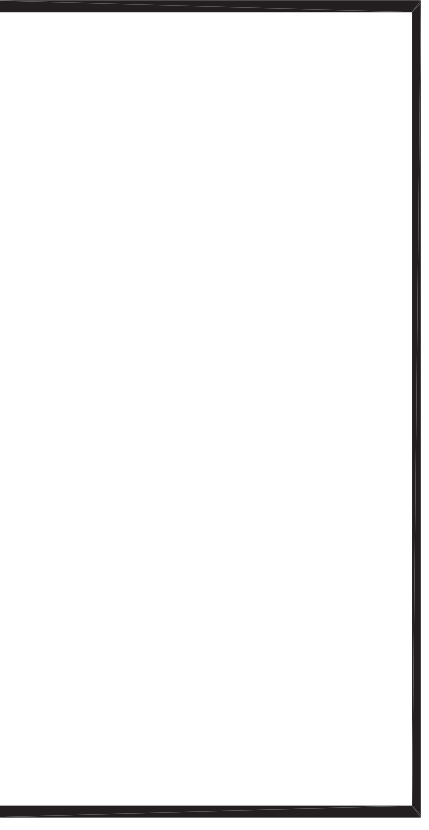
MUA FAN INFORMATION

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP HOUSING	BHP	PHASE	VOLT	FLA	MCA	MOCPP	WEIGHT (LBS)	SONES
2		1	A1-D.250-15D-MPU	15MF-1-MOD	1100	1800	0.500	2098	ODP, PREMIUM	A1-D.250 3.000	1.3610	3	208	8.6	10.8A	15A	1175	22

No.	Date	By	Notes
1	07.18.22	MB	PLAN SUBMITTAL TO CITY
2	08.04.22	JB	PLAN REVIEW REVISIONS

Drawn By: MB
 Checked: --
 Scale: AS NOTED
 Date: 6.12.22

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STATE OF MICHIGAN
 JAMES B. COVATICH
 LICENSE NO. 8888
 PROFESSIONAL ENGINEER

08/04/2022

PROJECT
 TWO HANDS
 728 W BIG BEAVER RD
 TROY, MI 48064

SHEET TITLE
 MAKEUP AIR UNIT DETAILS

DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

JOB #
 TG-22715

SHEET
 M2

SYMBOL LEGEND

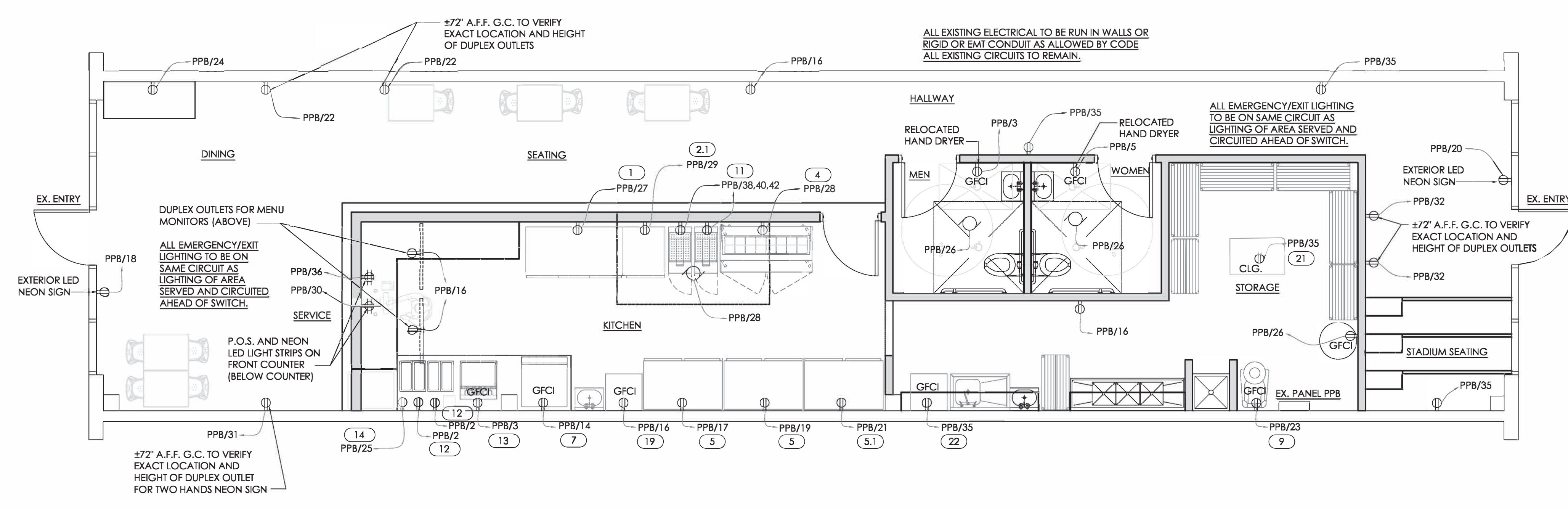
SYMBOL	DESCRIPTION
	20A, 120V NEMA 5-20R, DUPLEX RECEPTACLE MOUNTED PER PLAN
	IG DUPLEX (ORANGE)
	JUNCTION OR GANG BOX
LIGHT FIXTURES	
	BEST/CLPU1RWSDT
	BEST/RMR16LEDWSDT

ABBREVIATIONS

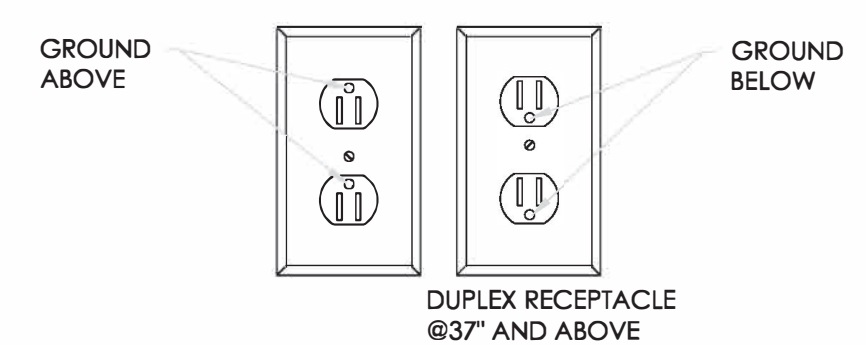
PPB/#	CONDUIT RUN WITH ARROW DENOTING HOMERUN. SUBSCRIPT INDICATES PANEL AND CIRCUIT NO. GROUND CONDUCTOR REQUIRED IN ALL CONDUITS BUT NOT INDICATED
GFCI	GROUND FAULT CIRCUIT INTERRUPTING
W.P.	WEATHERPROOF
A.F.F.	ABOVE FINISHED FLOOR
I.G.	ISOLATED GROUND

GENERAL NOTES

- PROVIDED APPROVED HANDLE TIE ON CIRCUIT BREAKERS TO CIRCUITS/HOMERUNS WITH SHARED NEUTRAL TO MEET NEC 210.1 AND 240.13
- ALL NEW CIRCUIT BREAKERS SHALL MATCH TYPE AND A.I.C. RATING.
- ALL RECEPTACLE LOCATIONS ARE TO BOTTOM OF RECEPTACLE.
- GFCI PROTECTION REQUIRED FOR RECEPTACLES IN THE KITCHEN, ROOFTOP RECEPTACLES AS REQUIRED WITHIN 25" FROM HEATING, AIR COND., AND REFRIGERATION EQUIPMENT ALSO WITHIN SIX FEET OF SINKS.
- ALL LIGHTING AND SWITCHES TO REMAIN.
- INSTALL NEW EMERGENCY/EXIT LIGHTING. SEE PLAN FOR LOCATIONS.
- ALL ELECTRICAL OUTLETS AND CONNECTIONS SHOWN ON FIXTURE PLAN AND SCHEDULE ARE FOR FIXTURES AND EQUIPMENT SHOWN. SEE ARCHITECTURAL PLANS AND GENERAL CONTRACTOR FOR FURTHER BUILDING ELECTRICAL REQUIREMENTS.
- ALL HORIZONTAL DIMENSIONS SHOWN ARE TAKEN FROM FINISHED WALL TO CENTER LINE OF OUTLET OR FROM CENTER LINE OF OUTLET TO CENTER LINE OF OUTLET, UNLESS OTHERWISE NOTED.
- ELECTRICAL CONTRACTOR TO VERIFY ALL DIMENSIONS AT JOB SITE. HEIGHT OF ELECTRICAL OUTLETS ON FIXTURE ELECTRICAL SCHEDULE IS GIVEN FROM FINISHED FLOOR (NOT FINISHED CURB), TO CENTER LINE OF OUTLET SET HORIZONTALLY.
- ELECTRICAL LINES NOTED ARE TO BE RUN IN WALL AND TO TERMINATE IN BOX OR STUB OUT OF WALL AS HEIGHT INDICATED. ELECTRICAL LINES NOTED AS "STUB-UP" ON FIXTURE ELECTRICAL SCHEDULE ARE TO BE RUN UNDER FLOOR AND ARE TO STUB OUT OF FINISHED FLOOR OR CURB, AS THE CASE MAY BE, AT LOCATION SHOWN.
- ALL ELECTRICAL POWER NOT OTHERWISE NOTED TO BE SINGLE PHASE.
- ALL 120 VOLT CONVENIENCE OUTLETS NOT DESIGNATED WITH SPECIFIC LOADS ARE TO BE RATED 20 AMPS. ELECTRICAL CONTRACTOR IS TO PROVIDE ANY ADDITIONAL OUTLETS AS CALLED FOR BY ARCHITECT, OWNER, AND/OR GENERAL CONTRACTOR.
- ELECTRICAL CONTRACTOR TO PROVIDE CAPS AND CORDS FOR ALL EQUIPMENT WHERE CAPS AND CORDS ARE NOT STANDARD WITH MANUFACTURER. ELECTRICIAN TO ALSO SHORTEN ANY CORDS SUPPLIED WITH EQUIPMENT IF REQUESTED TO DO SO BY OWNER OR FOOD SERVICE EQUIPMENT CONTRACTOR REPRESENTATIVE. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL CONDUIT AND PULL BOXES
- WHERE 220 VOLT IS SPECIFIED, FOOD SERVICE EQUIPMENT CONTRACTOR WILL PROVIDE TRANSFORMERS TO CORRECT VOLTAGE TO BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.
- ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL LOCKOUT DEVICES ON ALL BREAKERS FOR CLOCKS, REFRIGERATION, CONTROL WIRING AND EXHAUST SYSTEM CONTROLS.
- ELECTRICAL CONTRACTOR TO SUPPLY STAINLESS STEEL COVER PLATES FOR ANY FULLY OR PARTIALLY EXPOSED PULL BOXES AND/OR ELECTRICAL ACCESS BOXES AND PROVIDE STAINLESS STEEL COVER PLATES FOR ALL CONVENIENCE OUTLETS. ELECTRICAL CONTRACTOR TO PROVIDE POWER ON ROOF FOR AND CONNECT COMPONENTS OF
- ELECTRICAL CONTRACTOR TO INTERCONNECT EXHAUST SYSTEM FOR ACTIVATION FROM SINGLE SWITCH PROVIDED BY HIM. SEE ARCHITECTURAL PLANS AND SHOP DRAWINGS FOR REQUIREMENTS AND LOCATIONS OF EQUIPMENT. VERIFY CONNECTION OF UNITS AT JOB SITE WITH FIXTURE SHEET METAL FABRICATOR PROVIDING SYSTEMS.
- ELECTRICAL CONTRACTOR TO PROVIDE AND RUN CONDUITS FOR TELEPHONE, SOUND SYSTEM, COMPUTER, AND POS SYSTEMS, AS INDICATED ON FIXTURE ELECTRICAL PLAN, ARCHITECTURAL PLANS, AND/OR BY GENERAL CONTRACTOR, AND/OR OWNER. ELECTRICAL CONTRACTOR AND/OR ELECTRICAL ENGINEER TO SIZE ALL.
- INTERNAL WIRING FOR BOXES SUPPLIED AS PART OF FIXTURE TO BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. WHERE ACCESS IS NOT AVAILABLE FOR ELECTRICAL CONTRACTOR TO RUN HIS LINES FROM JUNCTION BOXES TO END USAGE IN FIXTURE, FIXTURE FABRICATOR TO SUPPLY AND INSTALL SUITABLE CONDUIT FOR RUNNING OF SUCH LINES. ALL JUNCTION BOXES AND CONVENIENCE OUTLET BOXES LOCATED IN WALLS TO BE FLUSH WITH FINISHED WALL UNLESS OTHERWISE NOTED. ELECTRICAL CONTRACTOR TO PROVIDE EXTENDER BOXES THROUGH SPLASHES AS REQUIRED.
- MAGNETIC STARTERS, WHERE REQUIRED FOR ALL EQUIPMENT SUPPLIED BY FOOD SERVICE EQUIPMENT CONTRACTOR UNDER FIXTURE CONTRACT, WILL BE SUPPLIED BY FOOD SERVICE EQUIPMENT CONTRACTOR.
- JUNCTION BOXES, OUTLET BOXES, PULL BOXES, SWITCHES, ETC., FOR ALL RESTAURANT FIXTURES AND EQUIPMENT AS REQUIRED AND AS SHOWN ON FOOD SERVICE EQUIPMENT CONTRACTOR ELECTRICAL PLAN, ELECTRICAL SCHEDULE AND NOTES INCLUDING INTERNAL WIRING OF FIXTURES. THIS WORK TO BE PERFORMED BY ELECTRICAL CONTRACTOR UNDER THE GENERAL CONTRACT IN A FIRST CLASS, WORKMANLIKE MANNER. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND COMPLIANCE WITH ANY AND ALL RELATED CODES, INCLUDING ANY REQUIRED ELECTRICAL INSPECTION OF CUSTOM FIXTURES DURING OR AFTER FABRICATION AT FABRICATOR'S SHOP OR AFTER DELIVERY OF FIXTURES TO JOB SITE. ELECTRICAL CONTRACTOR SHALL CHECK WITH FIXTURE FABRICATOR ON PROGRESS OF FABRICATION AND SHALL BE RESPONSIBLE FOR ANY REQUIRED INSPECTION OF INACCESSIBLE AREAS IN FIXTURES BEFORE SUCH AREAS ARE CLOSED OR SEALED.
- IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO FURNISH FOOD SERVICE EQUIPMENT CONTRACTOR WITH A WRITTEN LETTER INDICATING THE VOLTAGE, PHASE AND CYCLE AVAILABLE FOR EQUIPMENT PRIOR TO ORDERING EQUIPMENT. NO ELECTRICAL EQUIPMENT WILL BE ORDERED UNTIL RECEIPT BY FOOD SERVICE EQUIPMENT CONTRACTOR OF THIS LETTER.
- IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO SEE THAT HIS PHASE OF THE WORK MEETS AND IS INSTALLED IN ACCORDANCE WITH STANDARDS REQUIRED BY ALL GENERAL, STATE AND FEDERAL LAWS (INCLUDING HEALTH AND FIRE CODES), AND ANY AND ALL CODES PECULIAR TO MUNICIPALITY OR AREA WHERE JOB IS BEING INSTALLED.
- IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO SEE THAT ALL LIGHTING FIXTURES ARE PROPERLY SUPPORTED AND MEET LOCAL BUILDING CODES.
- ELECTRICAL CONTRACTOR TO PROVIDE DISCONNECT AND/OR THROW OFF SWITCHES FOR ANY EQUIPMENT AS REQUIRED BY LOCAL CODE.
- ELECTRICAL CONTRACTOR TO PROVIDE TEMPORARY POWER FOR FOOD SERVICE EQUIPMENT CONTRACTOR INSTALLERS IF NEEDED.
- ELECTRICAL CONTRACTOR TO VERIFY SITE AND LOCATION OF ELECTRICAL TRANSFORMER IF REQUIRED PRIOR TO INSTALLATION WITH FOOD SERVICE EQUIPMENT CONTRACTOR. PROVIDE AND INSTALL TRANSFORMER PER CODE.
- ELECTRICAL CONTRACTOR TO LABEL AND NUMBER ELECTRICAL PANELS PER FOOD SERVICE EQUIPMENT SCHEDULE. LABEL TO BE TYPED AND INSTALLED IN A WATERPROOF MANNER.
- ELECTRICAL CONTRACTOR TO BE PRESENT AT ALL TRADE INSPECTIONS.
- ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL ELECTRICAL CONNECTIONS FOR ALL ELECTRICAL COOKING EQUIPMENT FOR FIRE CONTROL SYSTEM.
- ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL HEATER TAPE FOR CONDENSATE.
- OUTLETS, CONDUIT RUNS, WIRING, ETC., SHALL BE CUT BY THE FOOD SERVICE EQUIPMENT CONTRACTOR ONLY.
- TEST FOR EXIT ILLUMINATION AND EXIT SIGNS, INCLUDING DIRECTIONAL EXIT SIGNS POWERED BY EITHER THE NORMAL PREMISES WIRING OR ANY ADDITIONAL REQUIRED EMERGENCY SYSTEM SHALL BE CONDUCTED THE PRESENCE OF THE BUILDING INSPECTION STAFF TO ENSURE COMPLIANCE. THE TEST TIMES FOR EMERGENCY SYSTEMS SHALL BE ARRANGED IN ADVANCE AND ALL STAFFING COSTS ASSOCIATED WITH EITHER PRE-OR-POST-TESTING SHALL BE PAID AT THIS TIME. THE TESTING AN APPROVAL OF SUCH SYSTEMS SHALL OCCUR PRIOR TO THE ISSUANCE OF A TEMPORARY CERTIFICATE OF APPROVAL OR FINAL APPROVAL OF THE PROJECT.
- EXIT SIGNS SHALL BE LOCATED AS NECESSARY TO CLEARLY INDICATE THE DIRECTION OF EGRESS TRAVEL. NO POINT SHALL BE MORE THAN 100 FEET FROM THE NEAREST VISIBLE SIGN.
- ALL ELECTRICAL OUTLETS IN THE BACK OF HOUSE TO BE G.F.C.I. RATED.
- ALL ELECTRICAL MATERIALS SHALL BE NEW AND U/L LISTED.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE, STATE CODE, AND AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL PROVIDE 1/8" NYLON PULL CORDS IN ALL EMPTY CONDUITS.
- CONDUCTORS SHALL BE COPPER, ASTM STANDARD SOLID NO. 10 AND SMALLER, STRANDED NO. 8 AND LARGER.
- ALL CONDUCTORS SHALL BE COPPER TYPE THWN INSULATION AT 75°C. U.O.N. ALL EQUIPMENT AND THE WIRING TERMINALS SHALL BE SUITABLE FOR 75°C WIRING TERMINATIONS.
- THE CONTRACTOR SHALL EXTEND WIRING FROM ALL JUNCTION BOXES, RECEPTACLES, SWITCHES, ETC. AND MAKE FINAL CONNECTION AS REQUIRED TO ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTION.
- SUBMIT SHOP DRAWINGS AND PRODUCT DATA PRIOR TO INSTALLATION FOR PANEL BOARDS, WIRING DEVICES, LIGHTING FIXTURES, LIGHTING CONTROL, MODULAR WIRING COMPONENTS.
- ALL J BOXES SHALL BE SIZED PER NEC CODE.
- A DUPLEX RECEPTACLE INSTALLED ON AN INDIVIDUAL 20A CIRCUIT BREAKER SHALL HAVE 20A RATING.
- PROVIDE MINIMUM 6" SEPARATION FOR BACK TO BACK OUTLET BOXES. ALL OUTLETS LOCATED WITHIN THE DEMISING WALL TO HAVE 24" BACK TO BACK SEPARATION.
- ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE FASTENED TO STRUCTURE SO AS TO RESIST MOVEMENT DUE TO SEISMIC FORCES. REQUIREMENTS SHALL BE AS SPECIFIED BY LOCAL CODES AND ORDINANCES.
- TEL/DATA HOMERUNS FROM FURNITURE FEES SHALL BE 1 1/2" CONDUIT MINIMUM.
- MINIMUM WIRE SIZE FOR HOMERUNS OVER 100' SHALL BE #10 COPPER.
- CONTRACTOR SHALL DO ALL CUTTING AND PATCHING OF THE EXISTING CONSTRUCTION WORK WHICH MAY BE REQUIRED FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL BE THE SAME MATERIALS, WORKMANSHIP, AND FINISH AND SHALL ACCURATELY MATCH ALL SURROUNDING WORK. AFTER COMPLETION OF WORK UNDER THIS SECTION, CLEANUP RESULTANT DEBRIS FROM THE WORK AND REMOVE FROM THE SITE.
- CONTRACTOR SHALL PROVIDE THE REQUIRED NUMBER OF WIRES PER CIRCUIT WIRING
- BREAKERS ARE BOLTED TYPE AND SWITCH RATED.
- ALL PIPING TO BE CLOSE TO WALLS AND UNDERSIDE OF ROOF FRAMING AS POSSIBLE.



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



A RECEPTACLE GROUND LOCATION DETAIL
NOT TO SCALE

ELECT. EQUIPMENT SCHEDULE

ITEM NO.	QTY.	DESCRIPTION	MANUFACTURER/ MODEL	VOLTS	PH	AMP	COMMENTS
1	1	UNDERCOUNTER REFRIGERATOR	BLUEAIR, BLUR60-HC	115	1	4.9	CORD & PLUG
2.1	1	UNDERCOUNTER FREEZER	BLUEAIR, BLUF28-HC	115	1	5	CORD & PLUG
4	1	SANDWICH REFRIGERATOR	BLUEAIR, BLMT60-HC	115	1	7.7	CORD & PLUG
5	2	REACH-IN REFRIGERATOR (BOTTOM-MOUNT)	BLUEAIR, BSR49-HC	115	1	7	CORD & PLUG
5.1	1	REACH-IN FREEZER (BOTTOM-MOUNT)	BLUEAIR, BSF49-HC	115	1	11.8	CORD & PLUG
7	1	ICE MAKER WITH BIN, CUBE-STYLE	BLUEAIR, BLUI-250A	115	1	9	CORD & PLUG
9	1	GLOBE MIXER	GLOBE, SP20	115	1	10	CORD & PLUG, NEMA 5-15
11	2	ELECTRIC FRYER	IMPERIAL, IFS-40-E	208/240	3	39	CORD & PLUG
12	2	ICETRO SLUSH MACHINE	ICETRO, SSM-280	115	1	5	CORD & PLUG, NEMA 5-15
13	1	FOUNTAIN DRINK MACHINE	PEPSI, STUBBORN	120	1	15	CORD & PLUG, NEMA 5-15
14	1	COOLER	PEPSI, PCB	120	1	xxx	CORD & PLUG, NEMA 5-15
15	2	HAND SINK, WALL MOUNT	Item #: 600HS172H				
16	1	NSF SINK, 3-COMPARTMENT	Item #: 600S31718GLFT				
16.1	3	SINK FAUCET	Item #: 600FW48GWHL				
17	1	MOP SINK	EXISTING				
17.1	1	MOP SINK FAUCET	EXISTING				
18	1	PREP SINK	Item #: 600S1181818GR				
18.1	1	PREP SINK FAUCET	Item #: 600FW48GWHL				
19	1	2x2' WORK TABLE	600T2424G				
20	2	36" WIRE SHELVING UNIT	H-6812				
21	4	48" WIRE SHELVING UNIT	H-6814				

ELECTRICAL SPECIFICATIONS

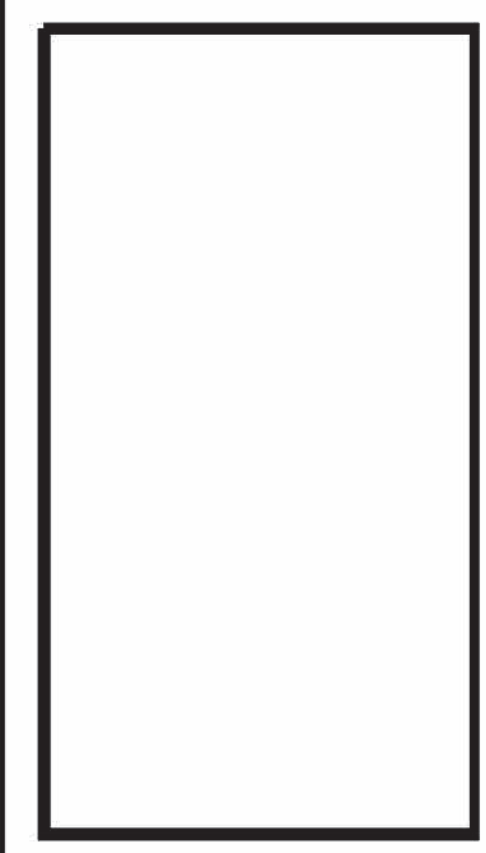
- WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ALL APPLICABLE RULES, REGULATIONS AND ORDINANCES.
- PROVIDE PROPER GROUNDING FOR ALL EQUIPMENT, RACEWAYS, ETC.
- ALL DISCONNECTS, FIXTURES AND OTHER ELECTRICAL COMPONENTS SUBJECT TO THE WEATHER MUST HAVE WEATHERPROOF ENCLOSURES.
- ALL ROUGH-IN LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR DETERMINING PROPER LOCATION.
- PROVIDE DISCONNECTS, FUSES, OVER CURRENT PROTECTION, AND CONTROL AND POWER WIRING, CHORDS AND PLUGS TO ALL EQUIPMENT INCLUDED AS PART OF THIS PROJECT, IF REQUIRED FOR PROPER OPERATION BUT NOT PROVIDED BY THE EQUIPMENT MANUFACTURER. EQUIPMENT SHALL INCLUDE ALL HVAC, EXHAUST FANS, HOODS, KITCHEN EQUIPMENT, MEDICAL EQUIPMENT AND ANY SPECIAL EQUIPMENT SHOWN AS A PART OF THE PROJECT.
- CONDUCTORS:
 - USE THWN #12 MINIMUM, 75° RATING.
 - FOR HOME RUNS OVER 65 FEET, USE ONE SIZE LARGER WIRE.
 - FOR HOME RUNS OVER 115 FEET, USE TWO SIZES LARGER WIRE.
 - ALUMINUM CONDUCTORS ARE NOT ALLOWED.
- CONDUIT:
 - USE RIGID OR EMT AS ALLOWED BY CODE.
 - ALL CONDUITS EXPOSED TO THE ELEMENTS OR BURIED UNDERGROUND SHALL BE WRAPPED WITH SCOTCH 51 TAPE OR EQUAL.
 - MC TYPE PREWIRED FLEXIBLE CABLE SHALL BE PERMITTED IN ALL WALLS AND CEILINGS AS PERMITTED BY CODE AND LOCAL BUILDING OFFICIALS.
- OVER CURRENT PROTECTION:
 - CIRCUIT BREAKERS THAT ARE TO BE USED TO PROTECT LIGHTING CIRCUITS ARE TO BE RATED FOR SWITCHING DUTY.
 - PROVIDE LOCK-ON DEVICES FOR NIGHT LIGHT, EMERGENCY AND EXIT LIGHT CIRCUITS.
 - ALL RECEPTACLES AND FIXED EQUIPMENT WITHIN AREA OF WET LOCATION NEED GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION PER NEC 517.20.

PANELBOARD SCHEDULE SURFACE MOUNTED

TYPE: BOLT-ON	MOUNTING: SURFACE	VOLTAGE: 120/208V 3PH-4W	BRACING: 65/10K S.R.
ISOLATED GROUND BUS CABINET: NEMA 1 MAINS: 200A MCB			
USE AND/OR AREA SERVED	C/B NO.	CIR NO.	USE AND/OR AREA SERVED
LIGHTING (EXST.)	20	1	SLUSH MACHINE
HAND DRYER - RELOCATED	20	3	HOT WATER TANK (EXISTING)
HAND DRYER - RELOCATED	20	5	FOUNTAIN DRINK MACHINE
RTU B (EXISTING)	45	7	MAU (NEW)
ROOFTOP OUTLET (EXST.)	20	13	ICE MAKER
OUTLET BELOW PANEL (EXST.)	20	15	OUTLETS
REACH-IN REFRIGERATOR	20	17	NEON SIGN FRONT DOOR
REACH-IN REFRIGERATOR	20	19	NEON SIGN REAR DOOR
REACH-IN FREEZER	20	21	LED POSTER FRAMES FRONT
GLOBE MIXER	20	23	CONDIMENT CABINET
PEPSI COOLER	20	25	100 GAL. HOT WATER HEATER
UNDER COUNTER REFRIGERATOR	20	27	EXHAUST HOOD
UNDER COUNTER FREEZER	20	29	POINT OF SALE
TWO HANDS NEON SIGN	20	31	LED POSTER FRAMES REAR
RESTROOM & STORAGE LIGHTS	20	33	SERVICE/KITCHEN CAN LIGHTS
OUTLETS	20	35	NEON LIGHT FRONT COUNTER
SPARE	20	37	FRYERS
SPARE	20	39	
SPARE	20	41	
TOTAL LOAD PER PHASE		15,490.2 23,336.5 22,053.2	60,879.9 TOTAL VA/360 = 169 AMPS

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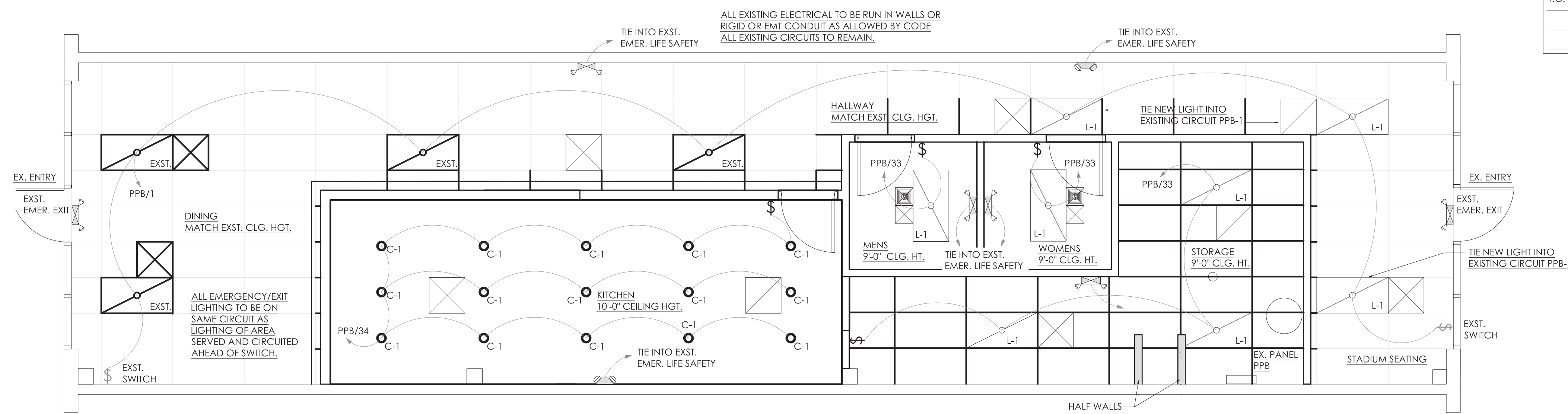
PROJECT: TWO HANDS 728 W BIG BEAVER RD TROY, MI 48064

SHEET TITLE: ELECTRICAL POWER PLAN AND PANEL SCHEDULE

DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

JOB # **TG-22715**

SHEET **E1**



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

ABBREVIATIONS

CPB#	CONDUIT RUN WITH ARROW DENOTING HOMERUN, SUBSCRIPT INDICATES PANEL AND CIRCUIT NO. GROUND CONDUCTOR REQUIRED IN ALL CONDUITS BUT NOT INDICATED
W.P.	WEATHERPROOF
A.F.F.	GROUND FAULT CIRCUIT INTERRUPTING
I.G.	ISOLATED GROUND

SYMBOL LEGEND

SYMBOL	DESCRIPTION
	20A, 120V NEMA 5-20R, DUPLEX RECEPTACLE MOUNTED PER PLAN
	SAME AS DUPLEX RECEPTACLE EXCEPT QUADRUPLEX TYPE.
	IG DUPLEX (ORANGE)
	JUNCTION OR GANG BOX

GENERAL NOTES

- PROVIDED APPROVED HANDLE TIE ON CIRCUIT BREAKERS TO CIRCUITS/HOMERUNS WITH SHARED NEUTRAL TO MEET NEC 210.1 AND 240.15
- ALL NEW CIRCUIT BREAKERS SHALL MATCH TYPE AND A.I.C. RATING.
- ALL RECEPTACLE LOCATIONS ARE TO BOTTOM OF RECEPTACLE.
- GFCI PROTECTION REQUIRED FOR RECEPTACLES IN THE KITCHEN, ROOFTOP RECEPTACLES AS REQUIRED WITHIN 25" FROM HEATING, AIR COND. AND REFRIGERATION EQUIPMENT ALSO WITHIN SIX FEET OF SINKS.
- ALL LIGHTING AND SWITCHES TO REMAIN.
- INSTALL NEW EMERGENCY/EXIT LIGHTING. SEE PLAN FOR LOCATIONS.
- ALL ELECTRICAL OUTLETS AND CONNECTIONS SHOWN ON FIXTURE PLAN AND SCHEDULE ARE FOR FIXTURES AND EQUIPMENT SHOWN. SEE ARCHITECTURAL PLANS AND GENERAL CONTRACTOR FOR FURTHER BUILDING ELECTRICAL REQUIREMENTS.
- ALL HORIZONTAL DIMENSIONS SHOWN ARE TAKEN FROM FINISHED WALL TO CENTER LINE OF OUTLET OR FROM CENTER LINE OF OUTLET TO CENTER LINE OF OUTLET, UNLESS OTHERWISE NOTED.
- ELECTRICIAN CONTRACTOR TO VERIFY ALL DIMENSIONS AT JOB SITE. HEIGHT OF ELECTRICAL OUTLETS ON FIXTURE ELECTRICAL SCHEDULE IS GIVEN FROM FINISHED FLOOR (NOT FINISHED CURB), TO CENTER LINE OF OUTLET SET HORIZONTALLY. ELECTRICAL LINES NOTED ARE TO BE RUN IN WALL AND TO TERMINATE IN BOX OR STUB OUT OF WALL AS HEIGHT INDICATED. ELECTRICAL LINES NOTED AS "STUB-UP" ON FIXTURE ELECTRICAL SCHEDULE ARE TO BE RUN UNDER FLOOR AND ARE TO STUB OUT OF FINISHED FLOOR OR CURB, AS THE CASE MAY BE, AT LOCATION SHOWN.
- ALL ELECTRICAL POWER NOT OTHERWISE NOTED TO BE SINGLE PHASE.
- ALL 120 VOLT CONVENIENCE OUTLETS NOT DESIGNATED WITH SPECIFIC LOADS ARE TO BE RATED 20 AMPS. ELECTRICAL CONTRACTOR IS TO PROVIDE ANY ADDITIONAL OUTLETS AS CALLED FOR BY ARCHITECT, OWNER, AND/OR GENERAL CONTRACTOR.
- ELECTRICIAN CONTRACTOR TO PROVIDE CAPS AND CORDS FOR ALL EQUIPMENT WHERE CAPS AND CORDS ARE NOT STANDARD WITH MANUFACTURER. ELECTRICIAN TO ALSO SHORTEN ANY CORDS SUPPLIED WITH EQUIPMENT IF REQUESTED TO DO SO BY OWNER OR FOOD SERVICE EQUIPMENT CONTRACTOR REPRESENTATIVE. ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL CONDUIT AND PULL BOXES
- WHERE 220 VOLT IS SPECIFIED, FOOD SERVICE EQUIPMENT CONTRACTOR WILL PROVIDE TRANSFORMERS TO CORRECT VOLTAGE TO BE INSTALLED AND CONNECTED BY ELECTRICAL CONTRACTOR.
- ELECTRICIAN CONTRACTOR SHALL PROVIDE AND INSTALL LOCKOUT DEVICES ON ALL BREAKERS FOR CLOCKS, REFRIGERATION, CONTROL WIRING AND EXHAUST SYSTEM CONTROLS.
- ELECTRICIAN TO SUPPLY STAINLESS STEEL COVER PLATES FOR ANY FULLY OR PARTIALLY EXPOSED PULL BOXES AND/OR ELECTRICAL ACCESS BOXES AND PROVIDE STAINLESS STEEL COVER PLATES FOR ALL CONVENIENCE OUTLETS. ELECTRICIAN TO PROVIDE POWER ON ROOF FOR AND CONNECT COMPONENTS OF
- ELECTRICIAN TO INTERCONNECT EXHAUST SYSTEM FOR ACTIVATION FROM SINGLE SWITCH PROVIDED BY HIM. SEE ARCHITECTURAL PLANS AND SHOP DRAWINGS FOR REQUIREMENTS AND LOCATIONS OF EQUIPMENT. VERIFY CONNECTION OF UNITS AT JOB SITE WITH FIXTURE SHEET METAL FABRICATOR PROVIDING SYSTEMS.
- ELECTRICIAN TO PROVIDE AND RUN CONDUITS FOR TELEPHONE, SOUND SYSTEM, COMPUTER, AND POS SYSTEMS, AS INDICATED ON FIXTURE ELECTRICAL PLAN, ARCHITECTURAL PLANS, AND/OR BY GENERAL CONTRACTOR, AND/OR OWNER. ELECTRICAL CONTRACTOR AND/OR ELECTRICAL ENGINEER TO SIZE ALL.
- INTERNAL WIRING FOR BOXES SUPPLIED AS PART OF FIXTURE TO BE SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR. WHERE ACCESS IS NOT AVAILABLE FOR ELECTRICAL CONTRACTOR TO RUN HIS LINES FROM JUNCTION BOXES TO END USAGE IN FIXTURE, FIXTURE FABRICATOR TO SUPPLY AND INSTALL SUITABLE CONDUIT FOR RUNNING OF SUCH LINES. ALL JUNCTION BOXES AND CONVENIENCE OUTLET BOXES LOCATED IN WALLS TO BE FLUSH WITH FINISHED WALL UNLESS OTHERWISE NOTED. ELECTRICIAN TO PROVIDE EXTENDER BOXES THROUGH SPLASHES AS REQUIRED.
- MAGNETIC STARTERS, WHERE REQUIRED FOR ALL EQUIPMENT SUPPLIED BY FOOD SERVICE EQUIPMENT CONTRACTOR UNDER FIXTURE CONTRACT, WILL BE SUPPLIED BY FOOD SERVICE EQUIPMENT CONTRACTOR.
- JUNCTION BOXES, OUTLET BOXES, PULL BOXES, SWITCHES, ETC., FOR ALL RESTAURANT FIXTURES AND EQUIPMENT AS REQUIRED AND AS SHOWN ON FOOD SERVICE EQUIPMENT CONTRACTOR ELECTRICAL PLAN, ELECTRICAL SCHEDULE AND NOTES INCLUDING INTERNAL WIRING OF FIXTURES. THIS WORK TO BE PERFORMED BY ELECTRICAL CONTRACTOR UNDER THE GENERAL CONTRACT IN A FIRST CLASS, WORKMANLIKE MANNER. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS AND COMPLIANCE WITH ANY AND ALL RELATED CODES, INCLUDING ANY REQUIRED ELECTRICAL INSPECTION OF CUSTOM FIXTURES DURING OR AFTER FABRICATION AT FABRICATOR'S SHOP OR AFTER DELIVERY OF FIXTURES TO JOB SITE. ELECTRICAL CONTRACTOR SHALL CHECK WITH FIXTURE FABRICATOR ON PROGRESS OF FABRICATION AND SHALL BE RESPONSIBLE FOR ANY REQUIRED INSPECTION OF INACCESSIBLE AREAS IN FIXTURES BEFORE SUCH AREAS ARE CLOSED OR SEALED.
- IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO FURNISH FOOD SERVICE EQUIPMENT CONTRACTOR WITH A WRITTEN LETTER INDICATING THE VOLTAGE, PHASE AND CYCLE AVAILABLE FOR EQUIPMENT PRIOR TO ORDERING EQUIPMENT. NO ELECTRICAL EQUIPMENT WILL BE ORDERED UNTIL RECEIPT BY FOOD SERVICE EQUIPMENT CONTRACTOR OF THIS LETTER.
- IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO SEE THAT HIS PHASE OF THE WORK MEETS AND IS INSTALLED IN ACCORDANCE WITH STANDARDS REQUIRED BY ALL GENERAL, STATE AND FEDERAL LAWS (INCLUDING HEALTH AND FIRE CODES), AND ANY AND ALL CODES PARTICULAR TO MUNICIPALITY OR AREA WHERE JOB IS BEING INSTALLED.
- IT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO SEE THAT ALL LIGHTING FIXTURES ARE PROPERLY SUPPORTED AND MEET LOCAL BUILDING CODES.
- ELECTRICIAN TO PROVIDE DISCONNECT AND/OR THROW OFF SWITCHES FOR ANY EQUIPMENT AS REQUIRED BY LOCAL CODE.
- ELECTRICIAN TO PROVIDE TEMPORARY POWER FOR FOOD SERVICE EQUIPMENT CONTRACTOR INSTALLERS IF NEEDED.
- ELECTRICIAN CONTRACTOR TO VERIFY SITE AND LOCATION OF ELECTRICAL TRANSFORMER IF REQUIRED PRIOR TO INSTALLATION WITH FOOD SERVICE EQUIPMENT CONTRACTOR. PROVIDE AND INSTALL TRANSFORMER PER CODE.
- ELECTRICIAN CONTRACTOR TO LABEL AND NUMBER ELECTRICAL PANELS PER FOOD SERVICE EQUIPMENT SCHEDULE. LABEL TO BE TYPED AND INSTALLED IN A WATERPROOF MANNER.
- ELECTRICIAN CONTRACTOR TO BE PRESENT AT ALL TRADE INSPECTIONS.
- ELECTRICIAN CONTRACTOR TO PROVIDE AND INSTALL ELECTRICAL CONNECTIONS FOR ALL ELECTRICAL COOKING EQUIPMENT FOR FIRE CONTROL SYSTEM.
- ELECTRICIAN CONTRACTOR TO PROVIDE AND INSTALL HEATER TAPE FOR CONDENSATE.
- OUTLETS, CONDUIT RUNS, WIRING, ETC. SHALL BE CUT BY THE FOOD SERVICE EQUIPMENT CONTRACTOR ONLY.
- TEST FOR EXIT ILLUMINATION AND EXIT SIGNS, INCLUDING DIRECTIONAL EXIT SIGNS POWERED BY EITHER THE NORMAL PREMISES WIRING OR ANY ADDITIONAL REQUIRED EMERGENCY SYSTEM SHALL BE CONDUCTED THE PRESENCE OF THE BUILDING INSPECTION STAFF TO ENSURE COMPLIANCE. THE TEST TIMES FOR EMERGENCY SYSTEMS SHALL BE ARRANGED IN ADVANCE AND ALL STAFFING COSTS ASSOCIATED WITH EITHER PRE-OR-POST-HOURS TESTING SHALL BE PAID AT THIS TIME. THE TESTING AND APPROVAL OF SUCH SYSTEMS SHALL OCCUR PRIOR TO THE ISSUANCE OF A TEMPORARY CERTIFICATE OF APPROVAL OF FINAL APPROVAL OF THE PROJECT.
- EXIT SIGNS SHALL BE LOCATED AS NECESSARY TO CLEARLY INDICATE THE DIRECTION OF EGRESS TRAVEL. NO POINT SHALL BE MORE THAN 100 FEET FROM THE NEAREST VISIBLE SIGN.
- ALL ELECTRICAL OUTLETS IN THE BACK OF HOUSE TO BE G.F.C.I. RATED.
- ALL ELECTRICAL MATERIALS SHALL BE NEW AND U/L LISTED.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE, STATE CODE, AND AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL PROVIDE 1/8" NYLON PULL CORDS IN ALL EMPTY CONDUITS.
- CONDUCTORS SHALL BE COPPER, ASTM STANDARD SOLID NO. 10 AND SMALLER, STRANDED NO. 8 AND LARGER.
- ALL CONDUCTORS SHALL BE COPPER TYPE THWN INSULATION AT 75°C. U.O.N. ALL EQUIPMENT AND THE WIRING TERMINALS SHALL BE SUITABLE FOR 75°C WIRING TERMINATIONS.
- THE CONTRACTOR SHALL EXTEND WIRING FROM ALL JUNCTION BOXES, RECEPTACLES, SWITCHES, ETC. AND MAKE FINAL CONNECTION AS REQUIRED TO ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTION.
- SUBMIT SHOP DRAWINGS AND PRODUCT DATA PRIOR TO INSTALLATION FOR PANEL BOARDS, WIRING DEVICES, LIGHTING FIXTURES, LIGHTING CONTROL, MODULAR WIRING COMPONENTS.
- ALL J BOXES SHALL BE SIZED PER NEC CODE.
- A DUPLEX RECEPTACLE INSTALLED ON AN INDIVIDUAL 20A CIRCUIT BREAKER SHALL HAVE 20A RATING.
- PROVIDE MINIMUM 6" SEPARATION FOR BACK TO BACK OUTLET BOXES. ALL OUTLETS LOCATED WITHIN THE DEMISING WALL TO HAVE 24" BACK TO BACK SEPARATION.
- ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE FASTENED TO STRUCTURE SO AS TO RESIST MOVEMENT DUE TO SEISMIC FORCES. REQUIREMENTS SHALL BE AS SPECIFIED BY LOCAL CODES AND ORDINANCES.
- TEL/DATA HOMERUNS FROM FURNITURE FEES SHALL BE 1 1/2" CONDUIT MINIMUM.
- MINIMUM WIRE SIZE FOR HOMERUNS OVER 100' SHALL BE #10 COPPER.
- CONTRACTOR SHALL DO ALL CUTTING AND PATCHING OF THE EXISTING CONSTRUCTION WORK WHICH MAY BE REQUIRED FOR THE PROPER INSTALLATION OF THE ELECTRICAL WORK. ALL PATCHING SHALL BE THE SAME MATERIALS, WORKMANSHIP, AND FINISH AND SHALL ACCURATELY MATCH ALL SURROUNDING WORK. AFTER COMPLETION OF WORK UNDER THIS SECTION, CLEANUP RESULTANT DEBRIS FROM THE WORK AND REMOVE FROM THE SITE.
- CONTRACTOR SHALL PROVIDE THE REQUIRED NUMBER OF WIRES PER CIRCUIT WIRING
- BREAKERS ARE BOLTED TYPE AND SWITCH RATED.
- ALL PIPING TO BE CLOSE TO WALLS AND UNDERSIDE OF ROOF FRAMING AS POSSIBLE.

REFLECTED CEILING PLAN LEGEND

	2'x4' ACT CEILING & GRID
	2' x 2' SUPPLY DIFFUSER EXISTING
	2' x 2' RETURN DIFFUSER EXISTING
	RESTROOM EXHAUST FAN
	2'x4' PANEL LIGHTS- EXISTING
	EXIT LIGHTS (EMX)- VERIFY AND INSTALL IF NOT EXISTING
	EMERGENCY LIGHTS (EM)-VERIFY AND INSTALL IF NOT EXISTING

ELECT. EQUIPMENT SCHEDULE

ITEM NO.	QTY.	DESCRIPTION	MANUFACTURER/ MODEL	VOLT	PH	AMP	COMMENTS
1	1	UNDERCOUNTER REFRIGERATOR	BLUEAIR, BLUR60-HC	120	1	4.9	CORD & PLUG
2.1	1	UNDERCOUNTER FREEZER	BLUEAIR, BLUF28-HC	120	1	5	CORD & PLUG
4	1	SANDWICH REFRIGERATOR	BLUEAIR, BLMT60-HC	120	1	7.7	CORD & PLUG
5	2	REACH-IN REFRIGERATOR (BOTTOM-MOUNT)	BLUEAIR, BSR49-HC	120	1	7	CORD & PLUG
5.1	1	REACH-IN FREEZER (BOTTOM-MOUNT)	BLUEAIR, BSF49-HC	120	1	11.8	CORD & PLUG
7	1	ICE MAKER WITH BIN, CUBE-STYLE	BLUEAIR, BLUI-250A	120	1	9	CORD & PLUG
9	1	GLOBE MIXER	GLOBE, SP20	120	1	10	CORD & PLUG, NEMA 5-15
11	2	ELECTRIC FRYER	IMPERIAL, IFS-40-E	208/240	3	39	CORD & PLUG
12	2	ICE/RO SLUSH MACHINE	ICETRO, SSM-280	120	1	5	CORD & PLUG, NEMA 5-15
13	1	FOUNTAIN DRINK MACHINE	PEPSI, STUBBORN	120	1	15	CORD & PLUG, NEMA 5-15
14	1	COOLER	PEPSI, PC8	120	1	X	CORD & PLUG, NEMA 5-15
15	2	HAND SINK, WALL MOUNT	Item #: 600HS172H				
16	1	NSF SINK, 3-COMPARTMENT	Item #: 600S3171718GLFT				
16.1	3	SINK FAUCET	Item #: 600FW48GWHL				
17	1	MOP SINK	EXISTING				
17.1	1	MOP SINK FAUCET	EXISTING				
18	1	PREP SINK	Item #: 600S1181818GR				
18.1	1	PREP SINK FAUCET	Item #: 600FW48GWHL				
19	1	2x2' WORK TABLE	600T2424G				
20	2	36" WIRE SHELVING UNIT	H-6812				
21	4	48" WIRE SHELVING UNIT	H-6814				



LIGHTING FIXTURE SCHEDULE

QTY.	TYPES	MFR	MODEL	WATTS	DESCRIPTION
15	C-1	NICOR	DLR56-3008-120-2K-WH-6	12	6" DIAMETER, WHITE RECESSED DOWN LIGHT USED IN GWB CEILING
8	L-1	SECURITY	LIT24-40-MLG-FSA-12-EU-C388	44	2x4 RECESSED TO BE USED IN B.O.H.
4	EXST.	EXISTING	EXISTING FIXTURE TO REMAIN	EX.	EXISTING FIXTURE
7	EMX	SECURITY	CCRC	4	EMERGENCY EXIT LIGHT

PANELBOARD SCHEDULE

ISOLATED GROUND BUS CABINET-NEMA 1 MAINS: 200A MCB

TYPE: BOLT-ON	MOUNTING: SURFACE	VOLTAGE: 120/208V 3PH-4W	BRACING: 65/10K S.R.
USE AND/OR AREA SERVED	C/B NO.	CIR NO.	C/B
LIGHTING (EXST.)	20	13	20
HAND DRYER - RELOCATED	20	3	4
HAND DRYER - RELOCATED	20	5	6
RTU B (EXISTING)	45	7	8
ROOFTOP OUTLET (EXST.)	20	13	14
OUTLET BELOW PANEL (EXST.)	20	15	16
REACH-IN REFRIGERATOR	20	17	18
REACH-IN REFRIGERATOR	20	19	20
REACH-IN FREEZER	20	21	22
GLOBE MIXER	20	23	24
PEPSI COOLER	20	25	26
UNDER COUNTER REFRIGERATOR	20	27	28
UNDER COUNTER FREEZER	20	29	30
TWO HANDS NEON SIGN	20	31	32
RESTROOM & STORAGE LIGHTS	20	33	34
OUTLETS	20	35	36
SPARE	20	37	38
SPARE	20	39	40
SPARE	20	41	42
TOTAL LOAD PER PHASE		15,490.2/23,336.5/22,053.2	60,879.9 TOTAL VA/360 = 169 AMPS

- ### ELECTRICAL SPECIFICATIONS
- WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ALL APPLICABLE RULES, REGULATIONS AND ORDINANCES.
 - PROVIDE PROPER GROUNDING FOR ALL EQUIPMENT, RACEWAYS, ETC.
 - ALL DISCONNECTS, FIXTURES AND OTHER ELECTRICAL COMPONENTS SUBJECT TO THE WEATHER MUST HAVE WEATHERPROOF ENCLOSURES.
 - ALL ROUGH-IN LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR IS RESPONSIBLE FOR DETERMINING PROPER LOCATION.
 - PROVIDE DISCONNECTS, FUSES, OVER CURRENT PROTECTION, AND CONTROL AND POWER WIRING, CHORDS AND PLUGS TO ALL EQUIPMENT INCLUDED AS PART OF THIS PROJECT, IF REQUIRED FOR PROPER OPERATION BUT NOT PROVIDED BY THE EQUIPMENT MANUFACTURER. EQUIPMENT SHALL INCLUDE ALL HVAC, EXHAUST FANS, HOODS, KITCHEN EQUIPMENT, MEDICAL EQUIPMENT AND ANY SPECIAL EQUIPMENT SHOWN AS A PART OF THE PROJECT.
 - CONDUCTORS:
 - USE THWN #12 MINIMUM, 75° RATING.
 - FOR HOME RUNS OVER 65 FEET, USE ONE SIZE LARGER WIRE.
 - FOR HOME RUNS OVER 115 FEET, USE TWO SIZES LARGER WIRE.
 - ALUMINUM CONDUCTORS ARE NOT ALLOWED.
 - CONDUIT:
 - USE RIGID OR EMT AS ALLOWED BY CODE.
 - ALL CONDUITS EXPOSED TO THE ELEMENTS OR BURIED UNDERGROUND SHALL BE WRAPPED WITH SCOTCH 51 TAPE OR EQUAL.
 - MC TYPE PREWIRED FLEXIBLE CABLE SHALL BE PERMITTED IN ALL WALLS AND CEILING AS PERMITTED BY CODE AND LOCAL BUILDING OFFICIALS.
 - OVER CURRENT PROTECTION:
 - CIRCUIT BREAKERS THAT ARE TO BE USED TO PROTECT LIGHTING CIRCUITS ARE TO BE RATED FOR SWITCHING DUTY.
 - PROVIDE LOCK-ON DEVICES FOR NIGHT LIGHT, EMERGENCY AND EXIT LIGHT CIRCUITS.
 - ALL RECEPTACLES AND FIXED EQUIPMENT WITHIN AREA OF WET LOCATION NEED GROUND-FAULT CIRCUIT INTERRUPTER PROTECTION PER NEC 517.20.

No.	1	2
Date	07.18.22	08.04.22
By	MB	JB
Notes	PLAN SUBMITTAL TO CITY	PLAN REVIEW REVISIONS

Drawn By: MB

Checked: --

Scale: AS NOTED

Date: 6.12.22

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STATE OF MICHIGAN
ENGINEER
80801
PROFESSIONAL

08/04/2022

PROJECT
TWO HANDS
728 W BIG BEAVER RD
TROY, MI 48064

SHEET TITLE
ELECTRICAL LIGHTING PLAN

JOB #
TG-22715

SHEET
E2

DO NOT SCALE THIS PRINT. USE FIGURED DIMENSIONS ONLY.

HOT WATER DEMAND REQUIREMENT

	NO. OF FIXTURES	TEMP. RISE	GPH PER FIX	EXIST. WH GPH	NEW WH GPH
HAND SINKS	4	70	5	10	10
PREP SINK	1	70	5		5
LAVATORIES	2	70	5	10	
MOP SINK	1	100	50	50	
3 COMP SINK	1	100	45		45
20 GAL. X 70°F X 8.33 = 14,578 BTU/H .80			15 GAL. X 70°F X 8.33 = 10,933 BTU/H .80		
50 GAL. X 100°F X 8.33 = 52,063 BTU/H .80			45 GAL. X 100°F X 8.33 = 46,856 BTU/H .80		
EX. WH DEMAND = 66,641 BTU/H REQ.			NEW WH DEMAND = 57,789 BTU/H REQ.=17 KW		

WATER HEATER SCHEDULE

ITEM NO.	QTY.	MANUFACTURER/ MODEL	EFFCNCY	BTU/H	KW	GPH@100°
WH-1	1	NEW A.O. SMITH BTL-199 TRIM J	80	199,900	58.58	191

- ### KEY NOTES
- EXISTING SANITARY SEWER SUPPLY. VERIFY EXACT LOCATION SITE AND ELEVATION PRIOR TO ROUGH IN AND START OF ANY WORK. COORDINATE WORK SCHEDULE WITH ADJACENT TENANTS WHEN MAKING CONNECTIONS TO THE SANITARY LINE.
 - PROVIDE THERMOSTATIC MIXING VALVE SET TO 110°F MAXIMUM AT ALL HAND SINKS.
 - CONNECT TO EXISTING WATER SUPPLY. VERIFY LOCATION AND SIZE. COORDINATE WATER SUPPLY MANIFOLD, METER BANKS AND BACKFLOW PREVENTERS. VERIFY IN FIELD CONNECTION POINT AND CONNECT TO MINIMUM 1" WATER SUPPLY.
 - PROVIDE SHUT OFF VALVE ON WATER SUPPLY FOR EACH PIECE OF EQUIPMENT & FIXTURES.
 - PROVIDE AIR GAP, IN COMPLIANCE WITH CODE.
 - INSULATE EXPOSED PIPES UNDER LAV.
 - INSTALL A LEAD FREE BACK FLOW PREVENTION DEVICE. VERIFY EXACT LOCATION & SUFFICIENT SIZE PRIOR TO INSTALLATION.

- ### GENERAL NOTES
- PLUMBING CONTRACTOR TO COORDINATE VENT STACKS WITH OUTSIDE AIR INTAKES OF A/C UNITS AND SUPPLY FANS & MAINTAIN AT LEAST 10'-0" MIN. CLEARANCE OR AS PER LOCAL CODE REQUIREMENTS. FLAT VENTS ARE NOT ALLOWED.
 - INCREASE V.I.R.'S TO SIZE REQUIRED BY LOCAL CODES AND CONDITIONS AS REQUIRED FOR FROST ENCLOSURE. FLAT VENTS ARE NOT ALLOWED.
 - CAST IRON PIPE MAY BE USED UNDER SLAB IN LIEU OF PVC ONLY IF REQUIRED BY CODE.
 - SEAL FLOOR DRAINS ACCORDING TO LOCAL REQUIREMENTS.
 - SAFEGASTE PIPING ABOVE AND ALONG FLOOR SHALL BE SIZED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS.
 - P.V.C. (SCHEDULE 40) PIPE CAN BE USED FOR VENTS AND WASTE ONLY IF APPROVED BY LOCAL BUILDING CODES.
 - PROVIDE CLEAN OUTS AS REQUIRED BY LOCAL CODE.
 - ALL NEW AND EXISTING WATERLINES TO BE BROUGHT UP TO CODE. WATER DISTRIBUTION PIPE AND TUBING SHALL CONFORM TO NSF 61 AND SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 605.4. HOT WATER DISTRIBUTION PIPE AND TUBING SHALL HAVE A PRESSURE RATING OF NOT LESS THAN 100 PSI (690 KPA) AT 180°F (82°C).
 - ALL HOT WATER DRAINS UNDER LAVS AND HAND SINKS TO BE INSULATED PER CODE.
 - MIXING VALVES TO BE ON FIXTURES AS SHOWN.
 - RE-CIRCULATION PUMP IS NEEDED FOR LINES THAT EXTEND GREATER THAN 50FT. AS PER CODE.
 - BACKFLOW PREVENTOR TO BE PROVIDED ON COFFEE MAKER AND ICE MACHINE.
 - AIR GAP TO BE PROVIDED AT FLOOR SINKS AS PER CODE REQUIREMENTS.
 - ALL GAS LINES AT EQUIPMENT TO BE EQUIPPED WITH QUICK DISCONNECTS.

SYMBOL LEGEND

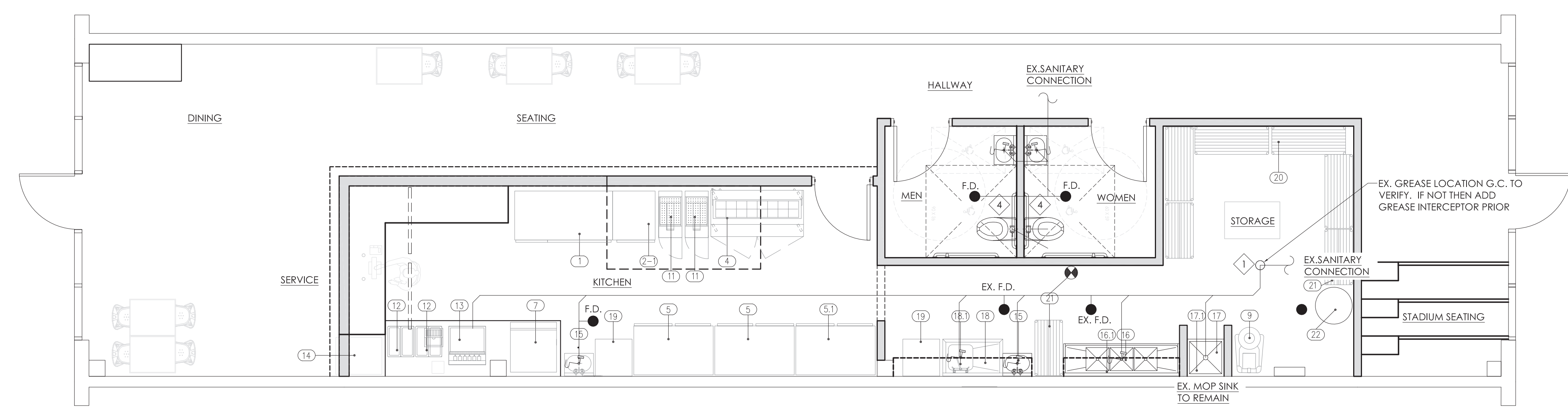
	COLD WATER (CW) PIPING
	HOT WATER (HW) PIPING
	FILTERED WATER (FW) PIPING
	HOW WATER RETURN (HWR) PIPING
	SANITARY WASTE PIPING (SAN)
	NATURAL GAS PIPING
	SHUT OFF VALVE
	VENT (V)
	INDIRECT SANITARY LINE
	TRENCH FLOOR

ABBREVIATIONS / SYMBOLS

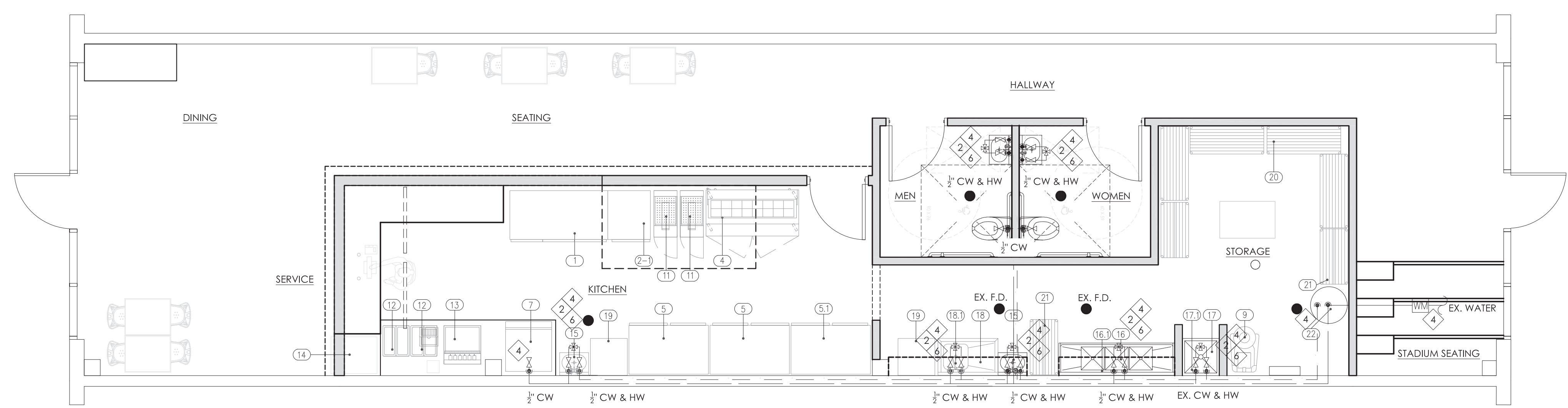
FD	FLOOR DRAIN	FS	FLOOR SINK
MV	MIXING VALVE	CO	WALL CLEAN OUT
	CONNECT TO EXIST.		FIXTURE TRAP

PLUMBING EQUIPMENT SCHEDULE

ITEM NO.	QTY.	DESCRIPTION	MANUFACTURER/ MODEL	FW	CW	HW	DRAIN	MBH	COMMENTS
7	1	ICE MAKER WITH BIN, CUBE-STYLE	BLUEAIR, BLUI-250A		1/2"	1"			
16	1	NSF SINK, 3-COMPARTMENT	Item #: 600S31718GLFT		1/2"	1/2"	1-1/2"		REGENCY BRAND
15	2	HAND SINK - WALL MOUNTED	Item #: 600HS172H		1/2"	1/2"	1-1/2"		REGENCY BRAND
17	1	MOP SINK	EXISTING	EX.	EX.	EX.			EX. TO REMAIN
18	1	PREP SINK	Item #: 600S1181818GRT		1/2"	1/2"	1-1/2"		



1 SANITARY WASTE PLAN
SCALE: 1/4"=1'-0"



2 WATER PLAN
SCALE: 1/4"=1'-0"

No.	Date	By	Notes
1	07.18.22	MB	PLAN SUBMITTAL TO CITY
2	08.04.22	JB	PLAN REVIEW REVISIONS

Drawn By: MB
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08/04/2022

PROJECT: TWO HANDS
728 W BIG BEAVER RD
TROY, MI 48064

SHEET TITLE: WATER, GAS, SANITARY & GREASE WASTE PLANS & NOTES

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JOB # TG-22715
SHEET P1