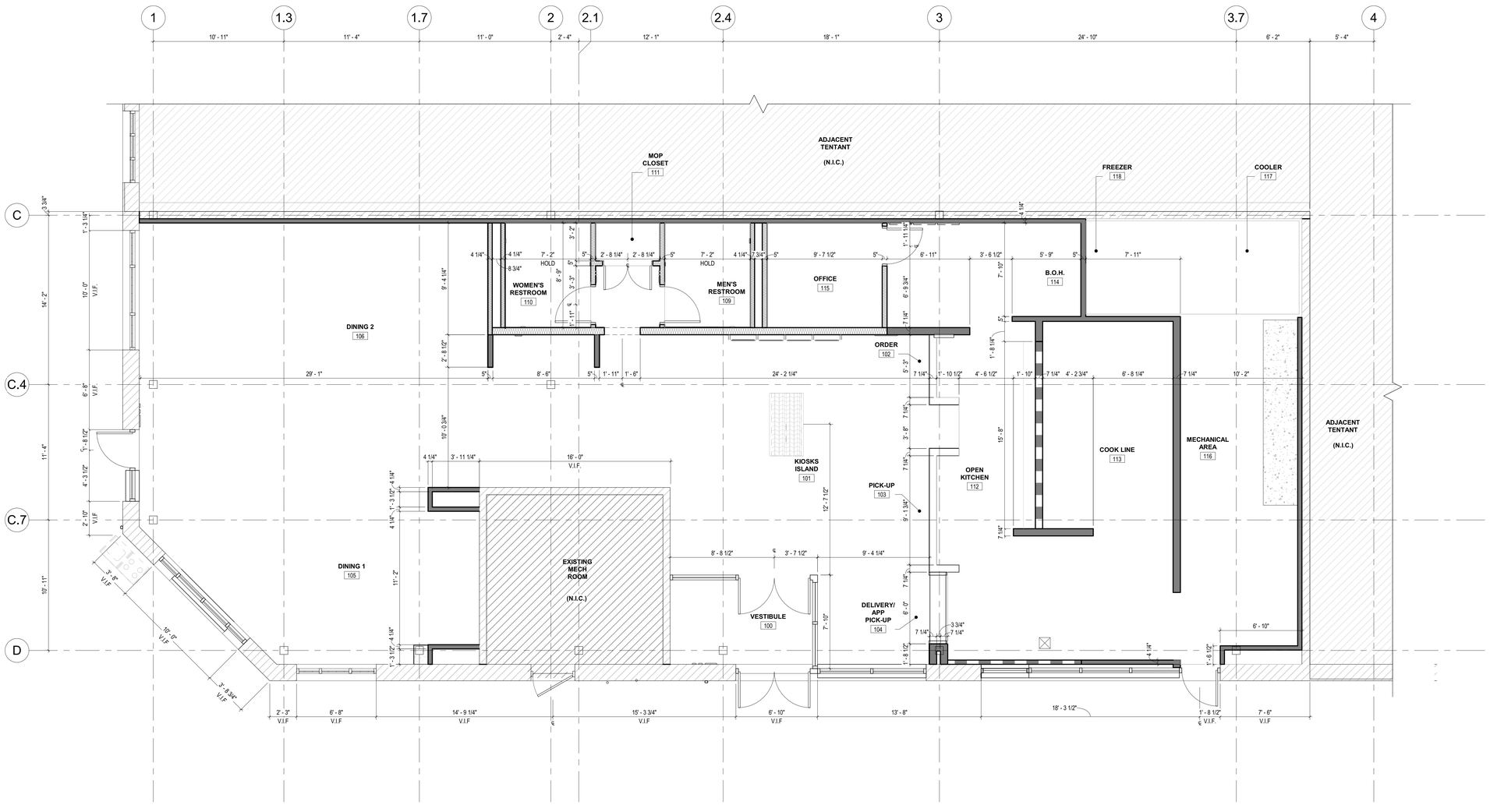
Rochester Hills Shake Shack #1354

3,835 sq ft



1 DIMENSIONED FLOOR PLAN
1/4" = 1'-0"

GENERAL NOTES

REFER TO A111 FOR ALL FLOOR PLAN GENERAL NOTES AND KEY NOTES

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SHACK# 1354

FIELD VERIFICATION
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NO.	DATE	REMARKS
	12/14/2020	ISSUE FOR PERMIT / BID
	11/30/2020	ISSUE FOR LL REVIEW

REVISIONS

STATE OF MICHIGAN
James R. Lenclos
Architect
No. 1301054
LICENSED ARCHITECT
EXP 10/31/21

Drawing Title
DIMENSIONED FLOOR PLAN

Job No.	Drawn
204576	NCK

Scale	Date
As indicated	10/16/2020

Sheet No.
A102

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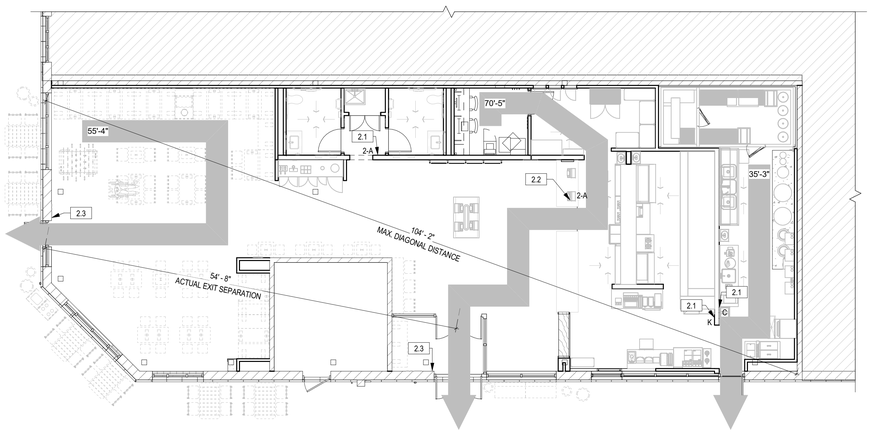
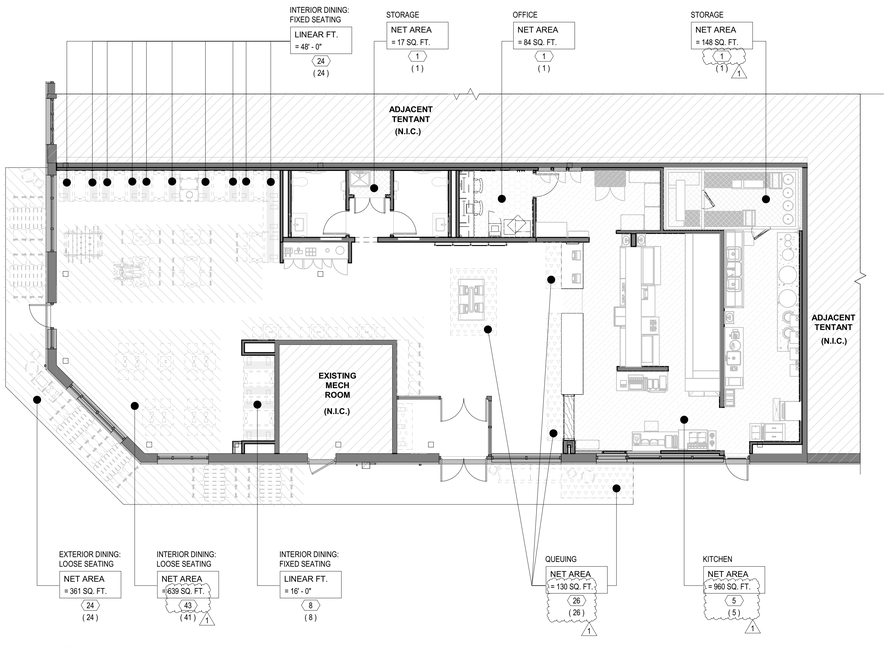


2 EGRESS PLAN
1/8" = 1'-0"



1 OCCUPANCY PLAN
1/8" = 1'-0"

SYMBOL LEGEND

	INDICATES EGRESS TRAVEL DIRECTION
XX'-XX"	INDICATES TRAVEL DISTANCE
	INDICATES 1-HOUR FIRE BARRIER UL# U404 FOR EXTERIOR WALLS
X	INDICATES TOTAL NUMBER OF OCCUPANTS IN AN AREA EXITING. ARROW INDICATES DIRECTION OF EGRESS
X	INDICATES ALLOWABLE OCCUPANCY OF SPACE
(X)	INDICATES ACTUAL OCCUPANCY SEATING
X	DOOR NUMBER, REFER TO DOOR SCHEDULE

OCCUPANCY LOAD CHART

DINING	LOOSE SEARING: = 1 OCCUPANT PER 15 NET SQ. FT.
DINING	FIXED SEATING: BOOTH SEATING (SECTION 1004.4) = 1 OCCUPANT PER 24 LINEAR INCHES = 1 OCCUPANT PER 18 LINEAR INCHES
QUEUING AREA	1 PERSON PER 5 NET SQ. FT.
OFFICE AND LOCKER AREA	1 PERSON PER 100 GROSS SQ. FT.
COMMERCIAL KITCHEN	1 PERSON PER 200 GROSS SQ. FT.
STORAGE / MECH. / COOLERS	1 PERSON PER 300 GROSS SQ. FT.

NOTES:
1. VALUES ARE PER (2015 MICHIGAN BUILDING CODE)

ALLOWABLE OCCUPANCY

DEPARTMENT	AREA / LINEAR FEET	OCCUPANCY LOAD FACTOR	TOTAL
DINING	1000 SF	15 SF per occupant(UNCONCENTRATED)	67
FIXED SEATING	64 LIN. FT.	2 LIN. FT. per occupant(FIXED SEATING)	32
KITCHEN	961 SF	200 SF per occupant(KITCHEN)	5
OFFICE	84 SF	100 SF per occupant(BUSINESS)	1
QUEUE AREA	130 SF	5 SF per occupant(CONCENTRATED)	26
STORAGE / MECH.	124 SF	300 SF per occupant(STORAGE)	2
TOTAL ALLOWABLE OCCUPANCY	2362		133

TOILET REQUIREMENTS

TOILET REQUIREMENTS: PER MICHIGAN PLUMBING CODE 2015 - TABLE 403.1
OCCUPANCY DISTRIBUTION: 134 TOTAL ALLOWABLE = 67 MEN, 67 WOMEN
OCCUPANCY: A2 ASSEMBLY

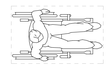
REQUIRED:
MALE: WATER CLOSET 1; - (1 PER 75) 1; LAVATORIES - (1 PER 200) 1
ACTUAL: WATER CLOSET 1; URINALS 0; LAVATORIES 1
TOTAL: W/C & URINALS 1; LAVATORIES 1

REQUIRED:
FEMALE: WATER CLOSET 1; - (1 PER 75) 1; LAVATORIES - (1 PER 200) 1
ACTUAL: WATER CLOSET 1; LAVATORIES 1
TOTAL: WATER CLOSET 1; LAVATORIES 1

REQUIRED:
FAMILY TOILET ROOM 0
ACTUAL:
FAMILY TOILET ROOM 0
DRINK FOUNTAIN - REFER TO NOTES #2 0

NOTES:
1. URINALS MAY BE SUBSTITUTED FOR WATER CLOSETS FOR MALES, NOT TO EXCEED 67% OF THE REQUIRED TOTAL NUMBER OF WATER CLOSETS PER MPC 2015 - 419.2
2. CUP FOR WATER WILL BE PROVIDE UPON CUSTOMER REQUEST IN LIUE OF DRINKING FOUNTAIN PER MPC 410.4

ADA LEGEND



DENOTES WHEELCHAIR ACCESSIBLE SEATING

(ACCESSIBILITY: PER ANSI 117.1-2009 - SECTION 226.1)
WHERE DINING SURFACES FOR CONSUMPTION OF FOOD OR DRINK ARE PROVIDED, AT LEAST 5% TO BE ADA ACCESSIBLE

TOTAL ACTUAL SEATING:
INTERIOR DINING AREA - 75 SEATS
EXTERIOR DINING AREA - 24 SEATS

TOTAL ADA SEATING REQUIRED:
INDOOR SEATING - 4 REQUIRED
OUTDOOR SEATING - 2 REQUIRED

KEYNOTES

2.1	RECESSED FIRE EXTINGUISHER CABINET
2.2	FIRE EXTINGUISHER LOCATED UNDER COUNTER
2.3	TACTILE EXIT SIGNAGE

GENERAL NOTES

1. REFER TO SHEET A201 FOR F.O.H. WALL FINISH, SHEET A 105 FOR CEILING FINISHES, & SEET A103 FOR FLOOR FINISHES & B.O.H. FINISHES
2. REFER TO K-SHEETS FOR KITCHEN EQUIPMENT INFORMATION
3. REFER TO SHEET A601 FOR ROOM FINISH SCHEDULE & SPECIFICATIONS
4. REFER TO SHEET A105 & E-SHEETS FOR EMERGENCY LIGHTING LOCATIONS
5. ALL EXIT DOORS SHALL BE OPERABLE FROM INSIDE WITHOUT USE OF A KEY OR ANY SPECIAL KNOWLEDGE OR EFFORT. SPECIAL LOCKING DEVICES SHALL BE AN APPROVED TYP.
6. DOOR MUST OPEN OVER A LANDING NOT MORE THAN 1/2" BELOW THRESHOLD & THE THRESHOLD SHALL BE BEVELED SUCH THAT THERE IS A 1/4" MAX. DROP
7. G.C. TO VERIFY AND COORDINATE FIRE EXTINGUISHER TYPES, LOCATIONS AND QUANTITIES WITH LOCAL FIRE PREVENTION OFFICIAL
8. REFER TO A 203 FOR ACCESSIBILITY CLEARANCES & DETAILS

INT. FINISH REQUIREMENTS

1. ALL INTERIOR FINISH MATERIALS TO HAVE THE FOLLOWING FLAME SPREAD RATINGS PER TABLE 803.13 (2012 INTERNATIONAL BUILDING CODE AND APPLICABLE SECTION) FOR THE LOCATION IN WHICH THE MATERIAL IS BEING INSTALLED.
   A. ROOMS AND ENCLOSED SPACES (SPRINKLERED) - CLASS - C
   B. CORRIDORS (SPRINKLERED) - CLASS - B

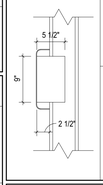
NOTES:
CLASS-B = FLAME SPREAD INDEX OF 26 -75, SMOKE-DEVELOPED INDEX OF 0-450 PER ASTM E84
CLASS-C = FLAME SPREAD INDEX OF 76-200, SMOKE DEVELOPED INDEX OF 0-450 PER ASTM E84

FIRE EXTINGUISHER SCHEDULE

SYMBOL	DESCRIPTION
2-A	TYPE 2-A EXTINGUISHER: FOR CLASS A HAZARDS IN ORDINARY (MODERATE) HAZARD OCCUPANCY. (1) EXTINGUISHER PROVIDES 1,500 S.F. OF PROTECTION IN DINING AREAS - DISTANCE TO EXTINGUISHER NOT TO EXCEED 75'-0"
C	TYPE C EXTINGUISHER: REQUIRED WHERE ENERGIZED ELECTRICAL EQUIPMENT CAN BE ENCOUNTERED THAT WOULD REQUIRE NON-CONDUCTING EXTINGUISHER MEDIUM
K	TYPE K EXTINGUISHER: REQUIRED WHERE COMBUSTIBLE COOKING MEDIA (GREASE/OIL) CAN BE ENCOUNTERED - DISTANCE TO EXTINGUISHER NOT TO EXCEED 30'-0"

NOTE:
1. CONTRACTOR TO CONFIRM FINAL QUANTITY AND LOCATIONS w/ LOCAL INSPECTORS HAVING JURISDICTION.
2. FIRE EXTINGUISHERS TO BE LOCATED WITHIN A 75'-0" TRAVEL DISTANCE AND HAVE A MINIMUM RATING OF 2A:10BC
3. PROVIDE APPROVED SIGNS FOR FIRE DEPARTMENT ACCESS POINTS AT MAIN ENTRANCE AND LOCKED GATES, AND KNOX COMPANY REQUIRED PADLOCK, IF REQUIRED

FIRE EXTINGUISHER CABINETS

SYMBOL	DESCRIPTION
	SEMI-RECESSED FIRE EXTINGUISHER CABINET MANUF. : JL INDUSTRIES INCORPORATED MODEL : COSMOPOLITAN SERIES MODEL #8137V10 (w/ HANDLE) / 2 1/2" ROLLED TRIM STYLE / 9"W x 18"H x 5 1/2"D NOTES : 1. PROVIDE AS REQUIRED PER PLAN. MOUNT FRONT OF HOUSE TYPE 'A' FIRE EXTINGUISHERS IN A CLEARLY VISIBLE AREA WITHIN A FIRE EXTINGUISHER CABINET AS SELECTED. FINAL LOCATION & QUANTITY TO BE DETERMINED BY THE LOCAL FIRE MARSHAL 2. FIRE EXTINGUISHER SIZE TO BE C COMPATIBLE w/ FIRE CABINET DIMENSIONS

CODE ANALYSIS

PROJECT DESCRIPTION
INTERIOR BUILD-OUT OF A QUICK SERVICE RESTAURANT
ON THE GROUND FLOOR OF AN EXISTING BUILDING

APPLICABLE CODES
BUILDING: MICHIGAN BUILDING CODE (MBC) 2015
ELECTRICAL: NATIONAL ELECTRICAL CODE (NEC) 2017
FIRE: INTERNATIONAL FIRE CODE (IFC) 2015
PLUMBING: MICHIGAN PLUMBING CODE (MPC) 2015
MECHANICAL: MICHIGAN MECHANICAL CODE (MMC) 2015
ACCESSIBILITY: 2009 ICC/ANSI 117.1
ENERGY: MICHIGAN ENERGY CODE

CONSTRUCTION TYPE (SECTION 601 TABLE 601):
II-B (SPRINKLERED)

FIRE RESISTANCE RATING:
ASSEMBLY RATINGS (SECTION 602 TABLE 601)

CONSTRUCTION TYPE:	II-B
STRUCTURAL FRAME	0 HR
EXTERIOR BEARING WALLS:	0 HR
EXTERIOR NON BEARING WALLS:	0 HR
ROOF CONSTRUCTION & SECONDARY MEMBERS	0 HR
FLOOR CONSTRUCTION & SECONDARY MEMBERS:	0 HR
BEAM / JOISTS / COLUMNS:	0 HR
INTERIOR BEARING WALLS:	0 HR
INTERIOR NON BEARING WALLS:	0 HR
OCCUPANCY SEPARATION WALLS:	0 HR

GROSS TENANT AREA:
3,324 SQ. FT.

OCCUPANCY (SECTION 303.3):
RESTAURANT = A-2

OCCUPANCY SEPARATION (TABLE 508.4)
A-2 / S-1 = 1HR
A-2 / M = 1HR
A-2 / F-1 = 1HR
A-2 / A-2 = 0HR

HEIGHT AND AREA LIMITATIONS (TABLE 503):
ALLOWABLE HEIGHT - EXISTING CONDITION
ALLOWABLE AREA - EXISTING CONDITION
ACTUAL AREA - EXISTING CONDITION

REQUIRED EXITS (SECTION SECTION 1021.1)
REQUIRED EXITS = 2
EXITS PROVIDED =3 (2 PUBLIC + 1 KITCHEN)

REQUIRED EXIT SEPARATION (SECTION 1015.2.1)
MINIMUM REQUIRED EXIT SEPARATION = (MAX. DIAGONAL DISTANCE: 104'-2") / 3 = 34'-8"
ACTUAL SEPARATION = 36'-6"

EXIT ACCESS TRAVEL DISTANCE (TABLE 1016.2)
MAXIMUM ALLOWABLE EXIT ACCESS TRAVEL DISTANCE = 250'-0" (SPRINKLERED)
ACTUAL EXIT ACCESS TRAVEL DISTANCE = 54'-8"

CAPACITY OF EXITS (SECTION 1005.3.2)
DOORS & OTHER EGRESS COMPONENT UNIT WIDTH = 0.2 INCHES PER OCCUPANT
MINIMUM CLEAR WIDTH OF EXIT DOORS = 36"

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NO.	DATE	REMARKS
1	02/05/2021	ADDENDUM #1
	12/14/2020	ISSUE FOR PERMIT / BID
	11/30/2020	ISSUE FOR LL REVIEW

REVISIONS

STATE OF MICHIGAN
James R. Lendzion
Architect
No. 1301038172
REGISTERED ARCHITECT
EXP 10/31/21

Drawing Title
CODE ANALYSIS, OCCUPANCY & EGRESS PLANS

Job No.	Drawn
204576	AL
Scale: As indicated	Date: 10/16/2020

Sheet No.
A002

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