WAL★MART
NEIGHBORHOOD MARKET

MOBILE (HILLCREST), AL
STORE NO.: 4657

SF: (GROSS LEASABLE AREA) 39,995
DATE: 07/18/07
PROTO: L-C-39 (RX-R)

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BUILDING CODE SUMMARY

39-C010-CODE

NAME OF PROJECT: MOBILE (HILLCREST), AL
STREET ADDRESS: NE CORNER OF COTTAGE HILL ROAD & HILLCREST ROAD
PROPOSED USE: RETAIL

APPLICABLE CODES:
BUILDING CODE: 2003 INTERNATIONAL BUILDING CODE (IBC)
2003 NFPA 101 LIFE SAFETY CODE
MECHANICAL CODE: 2003 INTERNATIONAL MECHANICAL CODE
PLUMBING CODE: 2003 INTERNATIONAL PLUMBING CODE
ELECTRICAL CODE: 2005 NATIONAL ELECTRICAL CODE
FIRE CODE: 2003 INTERNATIONAL FIRE CODE
ACCESSIBILITY CODE: ADAAG

MIXED OCCUPANCIES: THIS BUILDING HAS BEEN DESIGNED PER 2003 IBC SECTION 302.3 FOR MIXED OCCUPANCY AND SECTION 302.3.1 FOR NON SEPARATED USE.

SECTION 302.3.1 (NONSEPARATED USES) - FIRE SEPARATIONS ARE NOT REQUIRED BETWEEN USES PER SECTION 302.3.2 EXCEPT AS REQUIRED BY OTHER PROVISIONS (NONE REQUIRED HERE).

SECTION 303.1(2) A ROOM OR SPACE USED FOR ASSEMBLY PURPOSES BY LESS THAN 50 PERSONS AND ACCESSORY TO ANOTHER OCCUPANCY SHALL BE INCLUDED AS PART OF THAT OCCUPANCY.

THE COMBINED OCCUPANCY OF THE BREAKROOM AND TRAINING ROOM COMPLIES WITH THE ALLOWANCE AND IS THEREFORE CLASSIFIED AS MERCANTILE.

BUILDING OCCUPANCIES:
M - MERCANTILE - WHOLESALE OR RETAIL STORE (MAIN USE) - SECTION 309.1
S1 - RECEIVING AND STOCKROOMS - STORAGE AREAS (MIXED USE) - SECTION 311.2

TYPE OF CONSTRUCTION: TYPE 5B PER SECTION 602.5 AND TABLES 601 AND 602 (2003 IBC)

FIRE PROTECTION:

HOURLY FIRE-RESISTANCE RATING REQUIREMENT PER TABLE 601	REQUIRED	PROVIDED
STRUCTURAL FRAME	0 HOURS	0 HOURS
ROOF CONSTRUCTION	0 HOURS	0 HOURS
EXTERIOR BEARING WALLS	0 HOURS	0 HOURS
EXTERIOR NONBEARING WALLS	0 HOURS	0 HOURS
INTERIOR BEARING WALLS	0 HOURS	0 HOURS
INTERIOR NONBEARING WALLS AND PARTITIONS	0 HOURS	0 HOURS
FLOOR CONSTRUCTION	0 HOURS	0 HOURS

NUMBER OF EXITS OR EXIT ACCESS DOORS REQUIRED:
THIS BUILDING COMPLIES WITH TABLE 1014.1 (2003 IBC)
TWO (2) EXITS ARE REQUIRED WHEN THE FOLLOWING OCCUPANT LOADS ARE EXCEEDED:
FOR ASSEMBLY OCCUPANCIES GREATER THAN 50, TWO (2) EXITS ARE REQUIRED.
FOR STORAGE OCCUPANCIES GREATER THAN 30, TWO (2) EXITS ARE REQUIRED.
FOR MERCANTILE OCCUPANCIES GREATER THAN 50, TWO (2) EXITS ARE REQUIRED.

NOTE: MERCANTILE OCCUPANT LOAD EXCEEDS 1,000
FOUR (4) EXITS PROVIDED PER TABLE 1018.1

EXIT ACCESS TRAVEL DISTANCE:
250' FOR M OCCUPANCY PER 2003 IBC TABLE 1015.1 FOR SPRINKLERED BUILDINGS.
THIS BUILDING IS DESIGNED PER 2003 NFPA 101 SECTION 36.2.6.2, WHICH ALLOWS 250' OF TRAVEL DISTANCE TO THE EXIT ACCESS OR THE EXIT AS DEFINED IN SECTION 3.3.61

COMMON PATH OF TRAVEL:
75' FOR M OCCUPANCY PER 2003 IBC SECTION 1013.3 AND NFPA TABLE A.7.6.1 (100' WHEN SPRINKLERED)
100' FOR S OCCUPANCY (STORAGE) PER 2003 IBC AND IFC SECTION 1013.3 EXCEPTION #2.
THIS BUILDING HAS BEEN DESIGNED PER SECTION 1013.3 EXCEPTION #2, WHICH ALLOWS UP TO 100'

OCCUPANCY LOAD FACTORS:

MAXIMUM FLOOR AREA ALLOWANCE PER OCCUPANT PER 2003 IBC TABLE 1004.1.2	
SALES (MERCANTILE - GRADE FLOOR AREAS)	30 (GROSS)
STORAGE (MERCANTILE - STORAGE, STOCK, SHIPPING AREAS)	300 (GROSS)
TRAINING, BREAK AND DINING ROOMS (ASSEMBLY WITHOUT FIXED SEATING)	15 (NET)
BAKERY AND MEAT PREP AREAS (COMMERCIAL KITCHEN)	200 (GROSS)
OFFICE, PHARMACY, INVOICING AND MANAGEMENT (BUSINESS AREAS)	100 (GROSS)

ALLOWABLE AREA:
ALLOWABLE AREA PER TABLE 503 (2003 IBC) IS 9,000 SF. BUILDING IS PROTECTED BY AN APPROVED AUTOMATIC SPRINKLER SYSTEM AND IS SURROUNDED ON 3 SIDES BY 30 FEET MINIMUM OF PERMANENT OPEN SPACE.
ALLOWABLE AREA INCREASE DUE TO FRONTAGE (PER SECTION 506.2) IS 9,000 X (PERCENTAGE OF OPEN PERIMETER WALL SPACE TO TOTAL PERIMETER WALL SPACE - 0.25) = 9,000 X 0.55 = 4,950 SF.
ALLOWABLE AREA INCREASE DUE TO SPRINKLER PROTECTION (PER SECTION 506.3) IS 9,000 X 300% = 27,000 SF.
TOTAL ALLOWABLE AREA IS 9,000 + 4,950 + 27,000 = 40,950 SF.

OCCUPANCY LOAD CALCULATIONS: 2003 IBC WITH NFPA 101 LIFE SAFETY
OCCUPANCY LOAD = (SQUARE FOOTAGE) / (OCCUPANCY LOAD FACTOR)
OCCUPANCY LOAD FACTOR = REFER TO OCCUPANCY LOAD FACTOR TABLE

REQUIRED EGRESS WIDTH CALCULATIONS:
REQUIRED EGRESS WIDTH = (OCCUPANCY LOAD) x (EGRESS WIDTH FACTOR)
EGRESS WIDTH FACTOR = 0.20 INCHES

AREA	AREA (S.F.)	OCCUPANCY LOAD	WIDTH FACTOR	REQUIRED WIDTH	WIDTH PROVIDED	DOORS NUMBERS AND SIZES
MAIN SALES AREA:	29,352 S.F.	S.F./30 = 979 OCCUPANTS	X 0.20	= 196"	TOTAL = 250"	
					184"	ENTRY VESTIBULE
					33"	100A 1(3'-0") HINGED
					33"	100B 1(3'-0") HINGED
STORAGE COMBINED:	2,185 S.F.	= 9 OCCUPANTS		= 4"	TOTAL = 99"	
RECEIVING	1,591 S.F.	S.F./300 = 6 OCCUPANTS	X 0.20	= 2"	33"	117A 1(3'-0") HINGED
PHARMACY STORAGE 132	42 S.F.	S.F./300 = 1 OCCUPANTS	X 0.20	= 1"	33"	136A 1(3'-0") HINGED
MEZZANINE STORAGE 201	562 S.F.	S.F./300 = 2 OCCUPANTS	X 0.20	= 1"	33"	201A 1(3'-0") HINGED
ANCILLARY COMBINED:	2,652 S.F.	= 47 OCCUPANTS		= 14"	TOTAL = 366"	
BREAKROOM 125	326 S.F.	S.F./15 = 22 OCCUPANTS	X 0.20	= 5"	33"	125A 1(3'-0") HINGED
TRAINING 123	71 S.F.	S.F./15 = 5 OCCUPANTS	X 0.20	= 1"	33"	123A 1(3'-0") HINGED
MANAGER 122	56 S.F.	S.F./100 = 1 OCCUPANTS	X 0.20	= 1"	33"	122A 1(3'-0") HINGED
UPC 121	202 S.F.	S.F./100 = 3 OCCUPANTS	X 0.20	= 1"	33"	121A 1(3'-0") HINGED
CUSTOMER SERVICE 101	113 S.F.	S.F./100 = 2 OCCUPANTS	X 0.20	= 1"	33"	OPEN TO SALES
CASH 102	87 S.F.	S.F./100 = 1 OCCUPANTS	X 0.20	= 1"	33"	102A 1(3'-0") HINGED
PHARMACY 126	645 S.F.	S.F./100 = 7 OCCUPANTS	X 0.20	= 2"	39"	126A 1(3'-0") HINGED
KITCHEN 106 AND 107	881 S.F.	S.F./200 = 5 OCCUPANTS	X 0.20	= 1"	57"	OPEN TO SALES
PRODUCE PREP 111	291 S.F.	S.F./300 = 1 OCCUPANTS	X 0.20	= 1"	72"	OPEN TO SALES
TOTAL NET FLOOR AREA PER 2003 IBC, SECTION 1002.1	= 34,189 S.F.	= 1035 OCCUPANTS	X 0.20	= 214"	= 715"	

PLUMBING FIXTURE COUNTS:

TOTAL BUILDING OCCUPANT LOAD IS 1035
LOAD DISTRIBUTION: 50% MALE AND 50% FEMALE
DISTRIBUTION COUNT: 518 MALE AND 518 FEMALE

PER TABLE 403.1 (2003 IPC) AND CHAPTER 29 (2003 IBC)

LAVATORIES REQUIRED
MALE LAVATORIES: 518/750 = 1 (2 PROVIDED)
FEMALE LAVATORIES: 518/750 = 1 (2 PROVIDED)

WATER CLOSETS REQUIRED
MALE WATER CLOSETS: 518/500 = 2 (2 PROVIDED)
FEMALE WATER CLOSETS: 518/500 = 2 (3 PROVIDED)

DRINKING FOUNTAINS REQUIRED
1036/1000 = 2 (2 PROVIDED)

PER IPC SECTION 419.2 THE TWO URINALS ARE SUBSTITUTED FOR THE REQUIREMENTS OF ONE WATER CLOSET.

ADDITIONAL WATER CLOSET AND LAVATORY PROVIDED IN THE FAMILY TOILET ROOM

ACCESSORY EGRESS WIDTH CALCULATIONS

ACCESSORY SPACES EXITING THROUGH THE PRIMARY SPACES

EXITING COMPLIES WITH 2003 IBC SECTION 1004.1.3

ACCESSORY SPACE	OCCUPANT LOAD	% EXITING THROUGH SALES
RECEIVING	6	50% = 3
PHARMACY STORAGE	1	100% = 1
MEZZANINE STORAGE	2	100% = 2
BREAKROOMS	22	100% = 22
TRAINING	5	100% = 5
MANAGER	1	100% = 1
UPC	3	100% = 3
CUSTOMER SERVICE	2	100% = 2
CASH	1	100% = 1
PHARMACY	7	100% = 7
KITCHEN	5	100% = 5
PRODUCE PREP	1	100% = 1
	56	53

ACCESSORY LOAD EXITING THRU SALES	53
MAIN SALES OCCUPANT LOAD	979
TOTAL OCCUPANT LOAD THRU SALES	1032
EGRESS WIDTH FACTOR	X 0.20
TOTAL REQUIRED EGRESS WIDTH THRU SALES	207

TOTAL EGRESS WIDTH PROVIDED:
MAIN SALES = 250"
MAIN ENTRANCES = 184"
FRONT WALL = 184"

NOTE : ALL AREAS WITH 50 % EGRESS EXITING THROUGH MAIN SALES ARE PROVIDED WITH SECONDARY MEANS OF EXITING THAT DOES NOT PASS THROUGH SALES AREA.

GREATER THAN TWO-THIRDS OF REQUIRED EGRESS PASSES THROUGH FRONT WALL OF BUILDING AND COMPLIES WITH NFPA 101 SECTION 36.2.5.7.

BUILDING SQUARE FOOTAGE

TOTAL GROSS SQUARE FOOTAGE IS 40,759 PER DEFINITION OF GROSS FLOOR AREA 2003 IBC SECT. 1002.1

SHEET NOTES

1. BUILDING WILL BE FULLY SPRINKLERED AS REQUIRED BY CONTRACT DOCUMENTS. SUBMIT FIRE SPRINKLER SYSTEM DRAWINGS AND CALCULATIONS TO AUTHORITIES HAVING JURISDICTION (FIRE DEPARTMENT, FIRE MARSHAL ETC). OBTAIN ALL APPROVALS PRIOR TO FABRICATION OR INSTALLATION.

2. OWNER WILL PROVIDE FIRE EXTINGUISHERS IN ACCORDANCE WITH NFPA 10. AUTHORITY HAVING JURISDICTION WILL APPROVE FINAL FIRE EXTINGUISHER LOCATIONS.

3. WAL-MART'S ALARM CENTRALS ENGINEERING TEAM HAS CONTACTED THE AUTHORITY HAVING JURISDICTION FOR PRE-PLAN DATA ABOUT STATE AND LOCAL REQUIREMENTS THAT DIFFER FROM THE NATIONALLY PUBLISHED CODES AND STANDARDS. A COMPLETE SITE SPECIFIC SUBMITTAL IS BEING MADE DIRECTLY TO THE AUTHORITY HAVING JURISDICTION. AUTHORITY HAVING JURISDICTION QUESTIONS SHOULD BE DIRECTED TO 1-800-530-9924, OPTION 3.

4. THE MAXIMUM STORAGE HEIGHT IN STOCKROOM AND RECEIVING IS TWELVE FEET.

5. REFER TO SPECIFICATION 01640 - OWNER FURNISHED PRODUCT: THIS SECTION INCLUDES SPECIFIC INFORMATION REGARDING ITEMS AND SERVICES TO BE FURNISHED AND INSTALLED BY INDIVIDUALS OTHER THAN THE GENERAL CONTRACTOR. ALL ITEMS SHOWN DASHED REFER TO SPECIFICATIONS.

LOCK BOX

THE GENERAL CONTRACTOR WILL SUPPLY & INSTALL A LOCK BOX AS DIRECTED BY THE FIRE OFFICIAL.

ARCHITECTURAL:
BOYD W. RAU
ARCHITECT OF RECORD
6700 ANTIOCH PLAZA, SUITE 300
MERRIAM, KANSAS 66204

MECHANICAL:
HENDERSON ENGINEERS, INC.
ENGINEER OF RECORD
8325 LENEXA DRIVE, SUITE 400
LENEXA, KANSAS 66214

ELECTRICAL:
HENDERSON ENGINEERS, INC.
ENGINEER OF RECORD
8325 LENEXA DRIVE, SUITE 400
LENEXA, KANSAS 66214

PLUMBING:
HENDERSON ENGINEERS, INC.
ENGINEER OF RECORD
8325 LENEXA DRIVE, SUITE 400
LENEXA, KANSAS 66214

FIRE PROTECTION:
HENDERSON ENGINEERS, INC.
ENGINEER OF RECORD
8325 LENEXA DRIVE, SUITE 400
LENEXA, KANSAS 66214

STRUCTURAL:
WALLACE ENGINEERING
ENGINEER OF RECORD
818 GRAND BOULEVARD, SUITE 1100
KANSAS CITY, MISSOURI 64106

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ARCHITECT OF RECORD: BOYD W. RAU
6700 ANTIOCH PLAZA, SUITE 300, MERRIAM, KANSAS 66204

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CONSULTANTS

WAL★MART
NEIGHBORHOOD MARKET
MOBILE (HILLCREST), AL
STORE NO.4657
JOB NUMBER: 96124202 | PROTO: 39

ISSUE BLOCK

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CONSTRUCTION.

COVER SHEET

SHEET: C1