

BUILDING 10
2012 IBC / 2014 INDIANA BUILDING CODE SUMMARY

LEAD DESIGN PROFESSIONAL: ELINOR ANGEL, APOGEE CONSULTING
DESIGNER: APOGEE CONSULTING, ELINOR ANGEL, AR11400072
ARCHITECTURAL: GUIDON, KYLE CYR, PE11100458
CIVIL: APOGEE CONSULTING, NEVIN MASON, PE11200559
ELECTRICAL: N/A
FIRE ALARM: N/A
PLUMBING: N/A
MECHANICAL: APOGEE CONSULTING, BOB MAXWELL, 19200490
STRUCTURAL: GUIDON, MARK VANDERWOUDE, PE10809502
RETAINING WALLS > 5' HIGH: N/A
OTHER: N/A

2014 EDITION OF INDIANA BUILDING CODE FOR:
[X] NEW CONSTRUCTION [ ] ADDITION [ ] REMODELING
IS THIS CONSTRUCTION THE RESULT OF FIRE OR NATURAL DISASTER?
[ ] YES [X] NO
SEWER: [ ] EXISTING [ ] PROPOSED [ ] PUBLIC [ ] PRIVATE [X] NONE
FIRE SUPPRESSION SYSTEM IN BUILDING
[ ] FULL [X] NONE [ ] PARTIAL
IF PARTIAL, SPECIFY WHERE:
LOCATED IN FLOOD PLAIN (CHECK COUNTY PLAN COMMISSION)
[ ] YES [X] NO
INDIANA REHABILITATION STANDARD (CHAPTER 34) USED?
[ ] YES [X] NO
EVALUATION DOCUMENTS PROVIDED?
[ ] YES [X] NO
DOES PROJECT INCLUDE (CHECK IF YES)
[ ] HIGH PILE STORAGE [ ] BOILER OR PRESSURE VESSEL
[ ] ELEVATOR OR LIFT [ ] COMBUSTIBLE FIBERS STORAGE
[ ] FIREWORKS STORAGE [ ] EXPLOSIVES STORAGE
[ ] HAZARDOUS OR FLAMMABLE MATERIALS STORAGE

BUILDING DATA:
CONSTRUCTION TYPE: [ ] I-A [ ] I-B [ ] I-I-A [X] I-I-B [ ] I-I-A
MIXED CONSTRUCTION? [X] NO [ ] YES
SPRINKLERS: [X] NO [ ] YES
STANDPIPES: [X] NO [ ] YES
FIRE DISTRICT: [X] NO [ ] YES
BUILDING HEIGHT: 20'-6" FEET 1 # STORIES
MEZZANINE: [X] NO [ ] YES
HIGH RISE: [X] NO [ ] YES
GROSS BUILDING AREA:
FLOOR EXISTING (SQ FT) NEW (SQ FT) SUB-TOTAL TOTAL (SQFT)
1ST FLOOR 1146 GSF 0 GSF 1146 GSF
BASEMENT N/A 0 GSF 0 GSF
TOTAL 1146 GSF 0 GSF 1146 GSF

ALLOWABLE AREA
PRIMARY OCCUPANCY: [ ] ASSEMBLY [ ] A-1 [ ] A-2 [ ] A-3 [ ] A-4 [ ] A-5
[ ] BUSINESS [ ] EDUCATIONAL [ ] FACTORY-INDUSTRIAL [ ] F-1 [ ] F-2
[ ] HIGH HAZARD [ ] H-1 [ ] H-2 [ ] H-3 [ ] H-4 [ ] H-5
[ ] INSTITUTIONAL [ ] I-1 [ ] I-2 [ ] I-3 [ ] I-4
I-3 USE CONDITION: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5
[ ] MERCANTILE [ ] RESIDENTIAL [ ] R-1 [ ] R-2 [ ] R-3 [ ] R-4
[ ] STORAGE [ ] S-1 [X] S-2 [ ] HIGH-PILED
[ ] UTILITY & MISC. [ ] PARKING GARAGE: [ ] OPEN [ ] ENCLOSED [ ] REPAIR
ACCESSORY OCCUPANCY:
[ ] ASSEMBLY [ ] A-1 [ ] A-2 [ ] A-3 [ ] A-4 [ ] A-5
[ ] BUSINESS [ ] EDUCATIONAL [ ] FACTORY-INDUSTRIAL [ ] F-1 [ ] F-2
[ ] HIGH HAZARD [ ] H-1 [ ] H-2 [ ] H-3 [ ] H-4 [ ] H-5
[ ] INSTITUTIONAL [ ] I-1 [ ] I-2 [ ] I-3 [ ] I-4
I-3 USE CONDITION: [ ] 1 [ ] 2 [ ] 3 [ ] 4 [ ] 5
[ ] MERCANTILE [ ] RESIDENTIAL [ ] R-1 [ ] R-2 [ ] R-3 [ ] R-4
[ ] STORAGE [ ] S-1 [ ] S-2 [ ] HIGH-PILED
[ ] UTILITY & MISCELLANEOUS
PARKING GARAGE: [ ] OPEN [ ] ENCLOSED [ ] REPAIR

INCIDENTAL USES (TABLE 509):
[ ] FURNACE ROOM WHERE ANY PIECE OF EQUIPMENT IS OVER 400,000 BTU-HOUR INPUT
[ ] ROOMS WITH BOILERS WHERE THE LARGEST PIECE OF EQUIPMENT IS OVER 15 PSI AND 10 HORSEPOWER
[ ] REFRIGERANT MACHINE ROOM
[ ] HYDROGEN CUTOFF ROOMS, NOT CLASSIFIED AS GROUP H
[ ] INCINERATOR ROOMS
[ ] PAINT SHOPS, NOT CLASSIFIED AS GROUP H, LOCATED IN OCCUPANCIES OTHER THAN GROUP F
[ ] LABORATORIES AND VOCATIONAL SHOPS, NOT CLASSIFIED AS GROUP H, LOCATED IN OCCUPANCIES OTHER THAN GROUP F
[ ] LAUNDRY ROOMS OVER 100 SQUARE FEET
[ ] GROUP I-3 CELLS EQUIPPED WITH PADDED SURFACES
[ ] WASTE AND LINEN COLLECTION ROOMS LOCATED IN EITHER GROUP I-2 OCCUPANCIES OR AMBULATORY CARE FACILITIES
[ ] WASTE AND LINEN COLLECTION ROOMS OVER 100 SQUARE FEET
[ ] STATIONARY STORAGE BATTERY SYSTEMS HAVING A LIQUID ELECTROLYTE CAPACITY OF MORE THAN 50 GALLONS, OR A LITHIUM-ION CAPACITY OF 1000 POUNDS USED FOR FACILITY STANDBY POWER, EMERGENCY POWER OR UNINTERRUPTED POWER SUPPLIES.

SPECIAL USES:
[ ] 402 [ ] 403 [ ] 404 [ ] 405 [X] 406\* [ ] 407 [ ] 408 [ ] 409 [ ] 410 [ ] 411
[ ] 412 [ ] 413 [ ] 414 [ ] 415 [ ] 416 [ ] 417 [ ] 418 [ ] 419 [ ] 420 [ ] 421
[ ] 422 [ ] 423 [ ] 424 \*406 MOTOR-VEHICLE RELATED OCCUPANCIES
SPECIAL PROVISIONS:
[ ] 510.2 [ ] 510.3 [ ] 510.4 [ ] 510.5 [ ] 510.6 [ ] 510.7 [ ] 510.8 [ ] 510.9
MIXED OCCUPANCY:
[X] NO [ ] YES SEPARATION: \_\_\_ HR. EXCEPTION: \_\_\_\_\_
[ ] INCIDENTAL USE SEPARATION (TABLE 509)
[ ] NON-SEPARATED MIXED OCCUPANCY (303.1 EXCEPTION)
THE REQUIRED TYPE OF CONSTRUCTION FOR THE BUILDING SHALL BE DETERMINED BY APPLYING THE HEIGHT AND AREA LIMITATIONS FOR EACH OF THE APPLICABLE OCCUPANCIES TO THE ENTIRE BUILDING. THE MOST RESTRICTIVE TYPE OF CONSTRUCTION, SO DETERMINED, SHALL APPLY TO THE ENTIRE BUILDING.
[ ] SEPARATED MIXED OCCUPANCY (303.1/303.2) - SEE BELOW FOR AREA CALCULATIONS:
FOR EACH STORY, THE AREA OF THE OCCUPANCY SHALL BE SUCH THAT THE SUM OF THE RATIO OF THE ACTUAL FLOOR AREA OF EACH USE DIVIDED BY THE ALLOWABLE FLOOR AREA FOR EACH USE SHALL NOT EXCEED 1.

ACTUAL AREA OF OCCUPANCY A + ACTUAL AREA OF OCCUPANCY B ≤ 1 ALLOWABLE AREA OF OCCUPANCY A ALLOWABLE AREA OF OCCUPANCY B
STORY NUMBER DESCRIPTION & USE BUILDING AREA PER STORY (ACTUAL) (A) TABLE 503 AREA (B) AREA FOR OPEN SPACE INCREASE\* (C) AREA FOR SPRINKLER INCREASE† (D) ALLOWABLE AREA OR UNLIMITED‡ (E) MAXIMUM BUILDING AREA\* (F)

FRONTAGE AREA INCREASES FROM SECTION 506.2 ARE COMPUTED THUS:
A. PERIMETER WHICH FRONTS A PUBLIC WAY OR OPEN SPACE HAVING 20FT MIN WIDTH = (P)
B. TOTAL BUILDING PERIMETER = (P)
C. RATIO (FP) = (FP/P)
D. W = MIN. WIDTH OF PUBLIC WAY = (W)
E. PERCENT OF FRONTAGE INCREASE = 1 + 100 (FP/P - 0.25) X W/30 = (I%)
F. THE SPRINKLER INCREASE PER SECTION 506.3 IS AS FOLLOWS:
A. MULTI-STORY BLDG. = 200 PERCENT
B. SINGLE STORY BLDG. = 300 PERCENT
‡ UNLIMITED AREA APPLICABLE UNDER CONDITIONS OF SECTIONS GROUP B, F, M, S, A-4 (507.1, 507.2, 507.3, 507.5); NOT APPLICABLE
§ GROUP MOTION PICTURE (507.8); MALLS (402.6); & H-2 AIRCRAFT PAINT HANGARS (507.6);
\* MAXIMUM BUILDING AREA = TOTAL NUMBER OF STORIES IN THE BUILDING X E BUT NOT GREATER THAN 3 X E. 72,000 SF ALLOWED; ACTUAL = 3,208 GROSS SQUARE FEET (GSF)
† THE MAXIMUM AREA OF PARKING GARAGES MUST COMPLY WITH 406.3.5. THE MAXIMUM AREA OF AIR TRAFFIC CONTROL TOWERS MUST COMPLY WITH 412.1.2.

ALLOWABLE HEIGHT
TYPE OF CONSTRUCTION II-B III-B
BUILDING HEIGHT IN FEET 55 FEET 20 FT-6 IN
BUILDING HEIGHT IN STORIES 1 STORIES 1 STORIES

FIRE PROTECTION REQUIREMENTS \*
LIFE SAFETY PLAN SHEET #, IF PROVIDED: N/A
BUILDING ELEMENT FIRE SEPARATION DISTANCE (FEET) PER 703.2 RATING PROVIDED (W-1 REDUCT) DETAIL # AND SHEET # DESIGN # FOR RATED ASSY DESIGN # FOR RATED PENETRATION DESIGN # FOR RATED JOINTS

LIFE SAFETY SYSTEM REQUIREMENTS
EMERGENCY LIGHTING: [ ] NO [X] YES
EXIT SIGNS: [ ] NO [X] YES
FIRE ALARM: [ ] NO [X] YES
SMOKE DETECTION SYSTEMS: [ ] NO [X] YES [ ] PARTIAL
PANIC HARDWARE: [X] NO [ ] YES

ACCESSIBLE PARKING
LOT OR PARKING AREA TOTAL # OF PARKING SPACES # OF ACCESSIBLE SPACES PROVIDED TOTAL # ACCESSIBLE PROVIDED

PLUMBING FIXTURE REQUIREMENTS
USE WATER CLOSETS URINALS LAVATORIES SHOWERS/TUBS DRINKING FOUNTAINS
SPACE PROPOSED MALE FEMALE MALE FEMALE REGULAR ACCESSIBLE

ENERGY SUMMARY
CLIMATE ZONE [ ] 4 [X] 5
METHOD OF COMPLIANCE
[X] PRESCRIPTIVE (BUILDING CODE) [ ] PERFORMANCE (BUILDING CODE)
[ ] PRESCRIPTIVE (ASHRAE 90.1) [ ] PERFORMANCE (ASHRAE 90.1)
THERMAL ENVELOPE
ROOF/CEILING ASSEMBLY - (EACH ASSEMBLY):
DESCRIPTION OF ASSEMBLY: 6" OF EXTRUDED POLYSTYRENE
U-VALUE OF TOTAL ASSEMBLY: U = VALUE
R-VALUE OF INSULATION: R-30
EXTERIOR WALLS - (EACH ASSEMBLY):
DESCRIPTION OF ASSEMBLY: 8" CMU, 3" RIGID INSULATION & 4" BRICK VENEER
U-VALUE OF TOTAL ASSEMBLY: R-15
FLOOR OVER UNCONDITIONED SPACE
DESCRIPTION OF ASSEMBLY: N/A
U-VALUE OF TOTAL ASSEMBLY: N/A
FLOOR SLAB ON GRADE (EACH ASSEMBLY)
DESCRIPTION OF ASSEMBLY: UNHEATED SLAB ON GRADE
U-VALUE OF TOTAL ASSEMBLY: R-10

OCCUPANCY TABULATION PER TABLE 1004.1.2
RM. NO. NAME OCCUPANCY AREA SF PER PERSON PERSONS

DOOR AND STAIR CAPACITY PER UNIT EGRESS WIDTH
ELEMENT ACTUAL WIDTH OCCUPANCY NO. OF OCCUPANTS PER UNIT OF EGRESS WIDTH (U) MAXIMUM EGRESS CAPACITY ACTUAL EGRESS CAPACITY

three inches = one foot
one and one half inches = one foot
one inch = one foot
one quarter inch = one foot
one eighth inch = one foot

CONSULTANTS:
ARCHITECT/ENGINEERS: APOGEE CONSULTING GROUP, INC.
Drawing Title: CODE SUMMARY BUILDING 10
Project Title: REPLACE MAIN ELECTRICAL TO OUT-BUILDINGS
Location: FORT WAYNE, IN
Date: 9/18/2015
Checked: KMN
Drawn: MEG
Project Number: 610A4-12-188
Building Numbers: 1,3,5,6,7,10,14,15,16
Drawing Number: GI002
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Office of Construction and Facilities Management
Department of Veterans Affairs