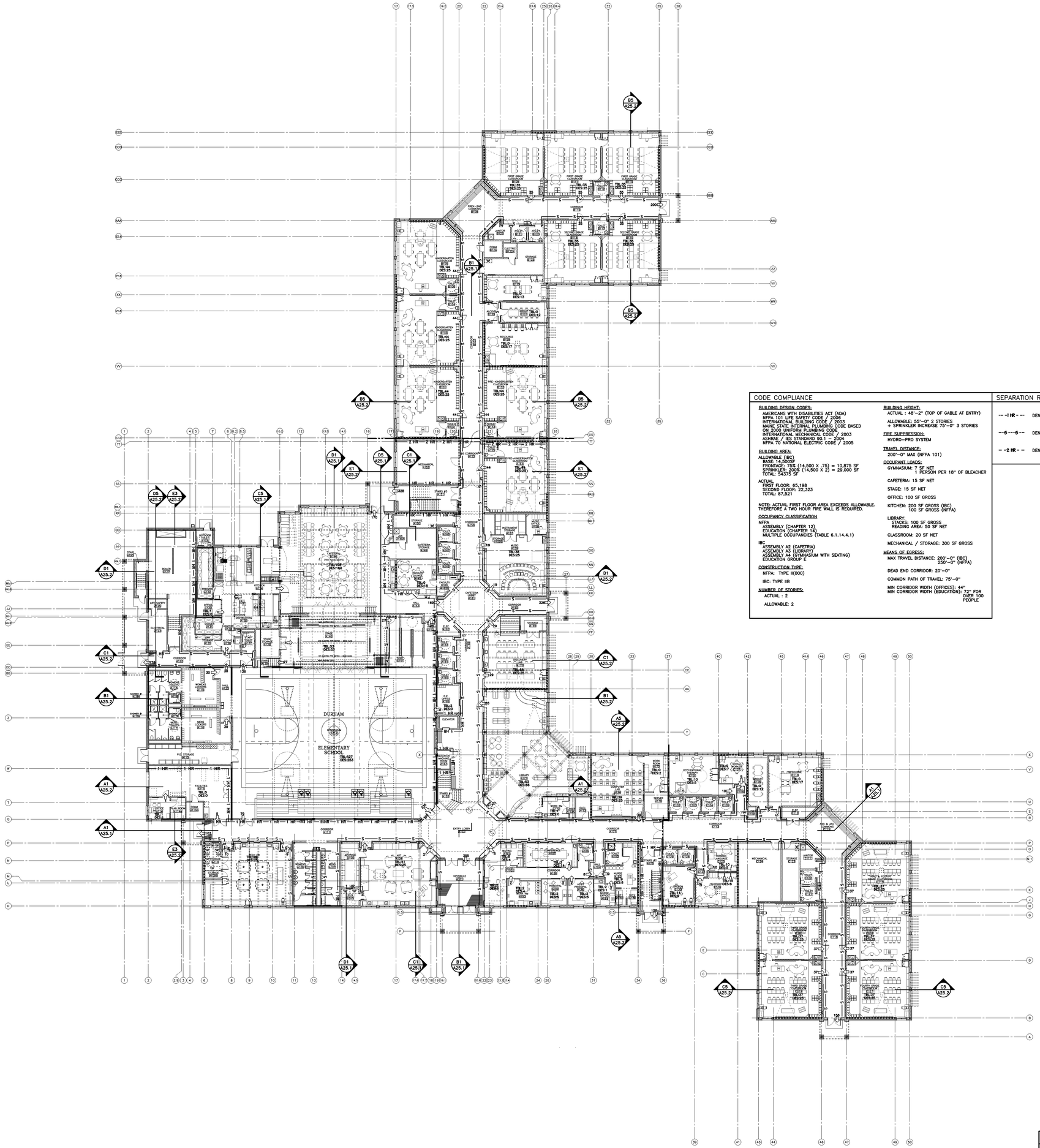

CODE COMPLIANCE

BUILDING DESIGN CODES:
AMERICANS WITH DISABILITIES ACT (ADA)
NFPA 101 LIFE SAFETY CODE / 2006
INTERNATIONAL BUILDING CODE / 2003
MAINE STATE INTERNAL PLUMBING CODE BASED ON 2000 UNIFORM PLUMBING CODE
INTERNATIONAL MECHANICAL CODE / 2003
ASHRAE / IES STANDARD 90.1 – 2004
NFPA 70 NATIONAL ELECTRIC CODE / 2005

BUILDING AREA:
ALLOWABLE (IBC)
BASE: 14,500SF
FRONTAGE: 75% (14,500 X .75) = 10,875 SF
SPRINKLER: 200% (14,500 X 2) = 29,000 SF
TOTAL: 54375 SF

ACTUAL
FIRST FLOOR: 65,198
SECOND FLOOR: 22,323
TOTAL: 87,521

NOTE: ACTUAL FIRST FLOOR AREA EXCEEDS ALLOWABLE. THEREFORE A TWO HOUR FIRE WALL IS REQUIRED.

OCCUPANCY CLASSIFICATION
NFPA
ASSEMBLY (CHAPTER 12)
EDUCATION (CHAPTER 14)
MULTIPLE OCCUPANCIES (TABLE 6.1.14.4.1)

IBC
ASSEMBLY A2 (CAFETRIA)
ASSEMBLY A3 (LIBRARY)
ASSEMBLY A4 (GYMNASIUM WITH SEATING)
EDUCATION GROUP E

CONSTRUCTION TYPE:
NFPA: TYPE II(000)

IBC: TYPE IIB

NUMBER OF STORIES:
ACTUAL : 2

ALLOWABLE: 2

BUILDING HEIGHT:
ACTUAL : 48'–2" (TOP OF GABLE AT ENTRY)

ALLOWABLE: 55'–0" 2 STORIES
+ SPRINKLER INCREASE 75'–0" 3 STORIES

FIRE SUPPRESSION:
HYDRO–PRO SYSTEM

TRAVEL DISTANCE:
200'–0" MAX (NFPA 101)

OCCUPANT LOADS:
GYMNASIUM: 7 SF NET
1 PERSON PER 18" OF BLEACHER

CAFETERIA: 15 SF NET

STAGE: 15 SF NET

OFFICE: 100 SF GROSS

KITCHEN: 200 SF GROSS (IBC)
100 SF GROSS (NFPA)

LIBRARY:
STACKS: 100 SF GROSS
READING AREA: 50 SF NET

CLASSROOM: 20 SF NET

MECHANICAL / STORAGE: 300 SF GROSS

MEANS OF EGRESS:
MAX TRAVEL DISTANCE: 200'–0" (IBC)
250'–0" (NFPA)

DEAD END CORRIDOR: 20'–0"

COMMON PATH OF TRAVEL: 75'–0"

MIN CORRIDOR WIDTH (OFFICES): 44"
MIN CORRIDOR WIDTH (EDUCATION): 72" FOR OVER 100 PEOPLE

SEPARATION REQUIREMENTS

--1HR--	DENOTES 1 HOUR FIRE RATED WALL ASSEMBLY
--6---6--	DENOTES SMOKE WALL ASSEMBLY
--2HR--	DENOTES 2 HOUR FIRE WALL ASSEMBLY

FIRST FLOOR INDEX PLAN
1/16" = 1'–0"
0 8' 16' 24'
REF: NA
A1

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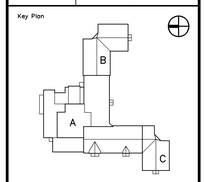
Project Title

DURHAM ELEMENTARY SCHOOL

DURHAM, MAINE

HA Project No. 06114

Key Plan



Mark	Date	Description
–	11–13–08	ISSUED FOR BID
–	09–24–08	95% REVIEW
–	06–27–08	DD REVIEW

Issue Dates

Drawing Status

Drawing Title

FIRST FLOOR INDEX PLAN

PA / PE: DWC
Drawn By: DF

Drawing Number

A01.1