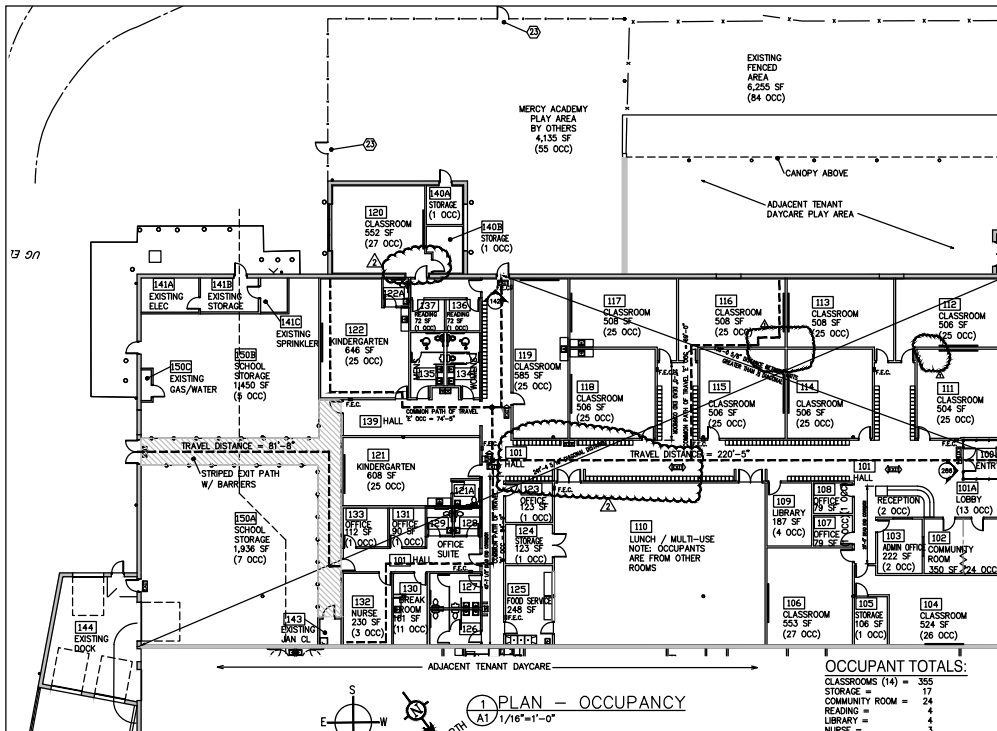
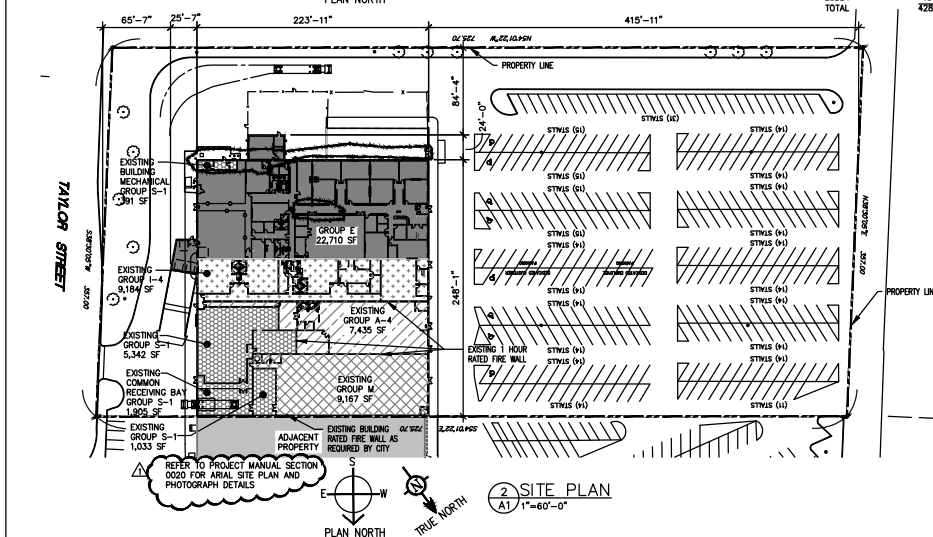




OCCUPANT TOTALS:

CLASSROOMS (14) =	355
STORAGE =	17
COMMUNITY ROOM =	24
READING =	4
LIBRARY =	4
NURSE =	3
OFFICE =	6
RECEPTION =	2
LOBBY =	13
TOTAL	428



CODE DATA

BUILDING CODE REVIEW

2015 MINNESOTA CONSERVATION CODE FOR EXISTING BUILDINGS
 (2012 IBC + 2012 IRC + 2015 MINNESOTA RULES CHAPTER 1300)
 2015 MINNESOTA FIRE CODE
 2015 MINNESOTA MECHANICAL CODE
 2015 MINNESOTA ACCESSIBILITY CODE
 2015 MINNESOTA PLUMBING CODE (BY REFERENCE 2012 UNIFORM PLUMBING CODE)
 2014 NATIONAL ELECTRICAL CODE

TYPE OF CONSTRUCTION

TYPE 2B
 EXISTING BUILDING PROTECTED WITH A NFPA 13 AUTOMATIC FIRE SPRINKLER SYSTEM PER SEC. 903.2.5
 EXISTING BUILDING 1 STORY, 22'-0"±

OCCUPANCY (CHAPTER 3 SEC 306.2 & SEC 308.6 CHILD CARE FACILITY)

E = EDUCATION
 I-4 = CHILD DAY CARE (ADJACENT OCCUPANCY)
 M = MERCANTILE (SEPARATED OCCUPANCY WITHIN BUILDING)

AREAS (CHAPTER 5 SEC 503)

ALLOWABLE AREA: 14,500 S.F. (TABLE 503)
 ALLOWABLE HEIGHT: 2 STORIES, 35'-0" (TABLE 503)

AREA MODIFICATIONS (CHAPTER 5 SEC 506)

FRONTAGE INCREASE (506.2): N/A
 SPRINKLER INCREASE (506.3): 300% ONE STORY, 43,500 S.F.

TOTAL ALLOWABLE AREA: 58,000 S.F.
 TOTAL GROSS AREA: 22,370 S.F.

AREA SEPARATION (CHAPTER 5 SEC 508.3)

ONE HOUR SEPARATION REQUIRED BETWEEN E AND I-4 OCCUPANCIES.
 NO SEPARATION REQUIRED BETWEEN E AND I OCCUPANCIES
 NO SEPARATION REQUIRED BETWEEN E AND A OCCUPANCIES
 NO SEPARATION REQUIRED BETWEEN E AND S2 (SPRINKLERED) OCCUPANCIES

508.4.2 ALLOWABLE BUILDING AREA

IN EACH STORY, THE BUILDING AREA SHALL BE SUCH THAT THE SUM OF THE RATIOS OF THE ACTUAL BUILDING AREA OF EACH SEPARATED OCCUPANCY DIVIDED BY THE ALLOWABLE BUILDING AREA OF EACH SEPARATED OCCUPANCY SHALL NOT EXCEED 1.

ALLOWABLE BUILDING AREA CALCULATIONS

BASE ALLOWABLE (TABLE 503)

RATIO (ACTUAL AREA/TOTAL BUILDING) * (TABLE 503 ALLOWABLE) = ALLOWABLE PER OCCUPANCY
 GROUP A-4 = (21,430/57,150) * 9,500 S.F. = 1236
 GROUP E = (22,710/57,150) * 14,500 S.F. = 5762
 GROUP I-4 = (9,184/57,150) * 13,000 S.F. = 2089
 GROUP M = (6,167/57,150) * 12,500 S.F. = 2005
 GROUP S-1 = (6,654/57,150) * 17,500 S.F. = 2050
 BASE ALLOWABLE FOR BUILDING = 13,742 S.F.

AREA INCREASES (SECT. 506)

13,742 S.F. = BASE ALLOWABLE (SEE ABOVE)
 + 7,327 = (13,742 / 100) * 100 = 13,742 S.F. FRONTAGE INCREASE (SEC 506.2)
 + 41,226 S.F. = (13,742 * 3) THREE TIMES AREA INCREASE FOR SPRINKLER (SEC 506.3)
 62,295 S.F. ALLOWABLE

ACTUAL TOTAL BUILDING AREA = 57,150 S.F.

OCCUPANT LOAD (CHAPTER 10 SEC 1004.1.1)

SEE PLAN 1/A1 FOR OCCUPANT LOAD CALCULATIONS.
 TOTAL OCCUPANTS: 428 OCC.

EGRESS REQUIREMENTS

(2) EXIT REQUIRED (SEC 1010.1)
 (2) EXITS PROVIDED WITH EXIT SIGNS AND EMERGENCY LIGHTING.

EXIT WIDTH (SEC 1006.3.2)

375 OCC X 0.2' = 75' EXIT WIDTH REQUIRED
 (1) EXIT @ 36" ± (1) EXIT AT 72" = 108" ACTUAL DOOR WIDTH PROVIDED
 NOTE: EACH 36" EXIT DOOR (34" CLEAR) CAN ACCOMMODATE UP TO 170 OCCUPANTS
 NOTE: (2) ADDITIONAL EXTERIOR EXIT DOORS AT FUTURE EXPANSION

CORRIDOR FIRE-RESISTANCE RATING: 0 HOUR (TABLE 1010.1)

CORRIDOR WIDTH: 72" MINIMUM (TABLE 1010.2)

ALLOWABLE EXIT ACCESS TRAVEL DISTANCE = 250'-0" (SEC 1010.6)

MAXIMUM ACTUAL EXIT ACCESS TRAVEL DISTANCE = 145'-0"

ALLOWABLE COMMON PATH OF EGRESS TRAVEL DISTANCE FOR E OCC = 75'-0" (SEC 1014.3)

ACTUAL COMMON PATH OF EGRESS TRAVEL DISTANCE FOR E OCC = 51'-0"

ALLOWABLE COMMON PATH OF EGRESS TRAVEL DISTANCE FOR B OCC = 100'-0" (SEC 1014.3)

ACTUAL COMMON PATH OF EGRESS TRAVEL DISTANCE FOR B OCC = 81'-0"

ALLOWABLE DEAD END CORRIDOR DISTANCE = 50'-0" (SEC 1010.4 EXCEPTION 2)

ACTUAL DEAD END CORRIDOR DISTANCE = 44'-0"

PLUMBING (SEC 2902.1 AND ADDITIONAL REQUIREMENTS)

TOTAL OCCUPANTS = 428 OCC OR 214 EACH MALE AND FEMALE
 GROUP E = (1) WC & (1) LAV PER 50 OCC, (1) DF PER 100 OCC, (1) SERVICE SINK

PLUMBING PROVIDED:

(6) WATER CLOSETS AND (6) LAVATORIES EACH MALE AND FEMALE
 (5) DRINKING FOUNTAINS
 (1) SERVICE SINK

PLUMBING PROVIDED:

(4) WATER CLOSETS AND (4) LAVATORIES EACH MALE AND FEMALE (STUDENTS)
 (2) UNSEX ACCESSIBLE YOUTH RESTROOMS (KINDERGARTEN)
 (2) UNSEX ACCESSIBLE RESTROOMS (STAFF)
 (5) DRINKING FOUNTAINS

PLUMBING PROVIDED:

(1) SERVICE SINK
 (1) SINK IN BREAK ROOM
 (1) SINKS IN CLASSROOMS
 RESTROOMS WILL HAVE CERAMIC TILE FLOOR FINISH, CERAMIC TILE BASE AND CERAMIC TILE WAINSCOT. RESTROOMS ARE ACCESSIBLE AND ON ACCESSIBLE ROUTES WITH ACCESSIBLE FLOOR SPACE AND FIXTURES PROVIDED. REST ROOMS SHALL HAVE SIGNAGE IN ACCORDANCE WITH MINNESOTA RULES CHAPTER 1341, MINNESOTA ACCESSIBILITY CODE SECTION 1107.1.

ADDITIONAL NOTES:

A) ROOM 125 FOOD SERVICE IS A WARMING KITCHEN, NOT A COMMERCIAL KITCHEN.

GENERAL NOTES / KEY NOTES

- SEE OTHERS PLANS FOR COORDINATION OF CIVIL, MECHANICAL AND ELECTRICAL, STRUCTURAL, PLUMBING, ELECTRICAL AND HVAC ARE DESIGN BUILD BY OWNER.
- THE OWNER WILL BE PROVIDING DRAWINGS AND SUBMITTALS FOR THE FOLLOWING WHICH ARE NOT INCLUDED IN THE ARCHITECT'S SCOPE OF WORK:
 - CIVIL ENGINEERING DRAWINGS AND SPECIFICATIONS - INCLUDING SITE ZONING REVIEW
 - STRUCTURAL ENGINEERING DRAWINGS AND SPECIFICATIONS
 - MECHANICAL (PLUMBING & HVAC), ELECTRICAL AND SPRINKLER ENGINEERING DRAWINGS AND SPECIFICATIONS
 - PLAYGROUND FENCE AND EQUIPMENT LAYOUT
 - KITCHEN EQUIPMENT LAYOUT
 - INTERIOR DESIGN AND MATERIAL SELECTIONS
 - SIGNAGE AND LAYOUT
 - FOOD SERVICE PLAN SUBMITTAL
 - FIRE AND SPRINKLER PLANS
 - DOOR & FRAME SCHEDULE, AND HARDWARE GROUPS
- GENERAL CONTRACTOR TO COORDINATE DEMOLITION AND ALL NEW CONSTRUCTION. ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE BUILDING CODES.
- SITE PRE-BID INVESTIGATION. NO ALLOWANCE SHALL BE MADE FOR FIELD SITUATIONS WHICH COULD HAVE BEEN DETERMINED BY FIELD INSPECTION PRIOR TO BEGINNING WORK.
- GENERAL CONTRACTOR MUST VERIFY ALL DIMENSIONS BEFORE COMMENCING WORK. REPORT IMMEDIATELY ANY DISCREPANCIES FOUND. IN ADDITION ALL OPENING DIMENSIONS SHALL BE FIELD VERIFIED. FIELD VERIFY CONDITION OF EXISTING 1 HOUR FIRE RATED TENANT SEPARATION WALL. REPAIR AS NECESSARY.
- GENERAL CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE BUILDING CODES AND SUBMIT AND PAY FOR ALL BUILDING PERMITS.
- INSTALLATION SHALL COMPLY WITH MANUFACTURERS STANDARDS AND REQUIREMENTS. ALL WORK PERFORMANCE OF THIS PROJECT SHALL BE DONE BY SKILLED WORKERS OR MECHANICS.
- RESTROOMS WILL HAVE CERAMIC TILE FLOOR FINISH, CERAMIC TILE BASE AND CERAMIC TILE WAINSCOT. RESTROOMS ARE ACCESSIBLE AND ON ACCESSIBLE ROUTES WITH ACCESSIBLE FLOOR SPACE AND FIXTURES PROVIDED. REST ROOMS SHALL HAVE SIGNAGE IN ACCORDANCE WITH MINNESOTA RULES CHAPTER 1341, MINNESOTA ACCESSIBILITY CODE SECTION 1107.1.
- ALL NEW CONSTRUCTION SHALL BE OF TYPE 2B NON COMBUSTIBLE MATERIALS AS ALLOWED IN IBC 2012 SECTION 602 AND 603. ALL NEW WALLS SHALL USE METAL STUDS AND GYPSUM BOARD. ALL WALLS TO ROOF DECK SHALL PROVIDE A SLIP CONNECTION FOR ROOF DEFLECTION, ALLOW FOR 2" MOVEMENT
- ALL DOORS SHALL HAVE LEVER HANDLES AND MEET ACCESSIBILITY REQUIREMENTS. DOORS TO BE POSITIONED IN WALL TO MEET ACCESSIBILITY REQUIREMENTS. ALL NEW DOORS ARE NON RATED. ALL EXIT DOORS SHALL BE PROVIDED WITH PANIC HARDWARE OR FIRE EXIT HARDWARE. SUBMIT HARDWARE SCHEDULE TO OWNER.

- ALL WINDOWS GREATER THAN 9 SQ FT WITH SILLS LESS THAN 18" ABOVE FLOOR SHALL REQUIRE SAFETY GLAZING. OWNER SHALL VERIFY SAFETY GLAZING REQUIREMENTS. TEMPERED WINDOWS ARE REQUIRED IN GLAZING WITHIN 24 INCHES OF EACH VERTICAL DOOR EDGE. CONTRACTOR TO VERIFY TEMPERED GLASS AT EXISTING WINDOWS AND REPLACE AS NEEDED.
- COORDINATE FIRE EXTINGUISHER LOCATIONS WITH FIRE MARSHAL AS REQUIRED.
- FOR ALL QUESTIONS REGARDING GRAPHIC REPRESENTATION OR REQUEST FOR ADDITIONAL COPIES OF DRAWINGS, CONTACT JEA ARCHITECTS, 952-335-5164.
- ALL TRASH WILL BE STORED INSIDE TRASH ENCLOSURE.
- GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMISSION OF PLANS FOR PERMITTING.
- OWNER SHALL BE RESPONSIBLE FOR SUBMISSION FOR APPROVAL AND LICENSING TO MINNESOTA HEALTH DEPARTMENT AND DEPARTMENT OF HUMAN SERVICES.
- SIGNAGE SHALL COMPLY WITH 2015 MN BUILDING CODE AND CITY REQUIREMENTS.
- ROOF PLAN AND CEILING PLAN WILL BE BY MECHANICAL AND ELECTRICAL ENGINEER.
- VERIFY PLUMBING WALL THICKNESS NECESSARY WITH MECHANICAL CONTRACTOR.
- FOOD SERVICE EQUIPMENT SHALL BE BY OTHERS.
- LOOKER PLAN PROVIDED BY OTHERS.
- KITCHEN FINISHES SHALL COMPLY W/ BUILDING CODE REQUIREMENTS
- OWNER & TENANT TO PROVIDE PANIC DEVICE AT GATE

SHEET INDEX

- A1 COVER SHEET / CODE DATA
- A2 DEMOLITION PLAN
- A3 FLOOR PLAN
- A4 DETAILS
- A5 REFLECTED CEILING PLAN

JE ARCHITECTS

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 1000 CONCORD DRIVE, SUITE 200, MINNEAPOLIS, MN 55406-1000
 (612) 338-1000
 www.jearchitects.com

DATE: 02/23/17
 BY: [Signature]
 CHECKED BY: EDWARD ANDERSON
 DATE: 02/23/17
 LICENSE NO.: 15732

REVISIONS:

REV	DATE	DESCRIPTION
1	02/27/17	REMOVED CABINET AND SINK
2	03/09/17	AS INDICATED

RIVER VALLEY CROSSING, LLC
 14675 MARTIN DRIVE
 EDEN PRAIRIE, MN 55444
 (952) 944-1865

R & C
 DRAFTING
 AND
 ESTIMATING

9448 CREEK RIDGE LANE
 SAUKVILLE, MN 55378
 (612) 965-3999
 Bob@RnCDrafting.com

COVER SHEET / CODE DATA
 MERCY COMMUNITY ACADEMY
 RIVER VALLEY CROSSING, HIGHWAY 69
 SHAKOPEE, MINNESOTA 55379

CHECKED BY: [Signature] DATE: 2/9/17 SCALE: 1/16"=1'-0" SHEET NO: A1