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1191 WEST SQUARE LAKE ROAD · BLOOMFIELD HILLS · MICHIGAN · 48302
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2016 WORK BID PACKAGE NO. 1

BIRMINGHAM PUBLIC SCHOOLS BIDS

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PROJECT LIST

15097 - Beverly Elementary

15098 - Bingham Farms Elementary

15099 - Greenfield Elementary

15100 - Harlan Elementary

15101 - Pembroke Elementary

15102 - Pierce Elementary

15103 - Quarton Elementary

15105 - Birmingham Covington

15108 - Groves High School

15109 - Seaholm High School

15111 - Operations

15112 - Transportation

REGISTRATION SEALS

LICENSEE'S STATEMENT:

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PROJECT TITLE

**BID PACKAGE 1
School Remodeling**

PROJECT NO.

15097

DRAWING NO.

TS.1

02-15-2016 BP NO. 1 - BIDS
DATE ISSUED FOR:



ARCHITECTURE

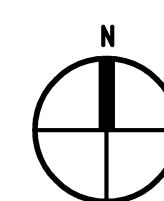
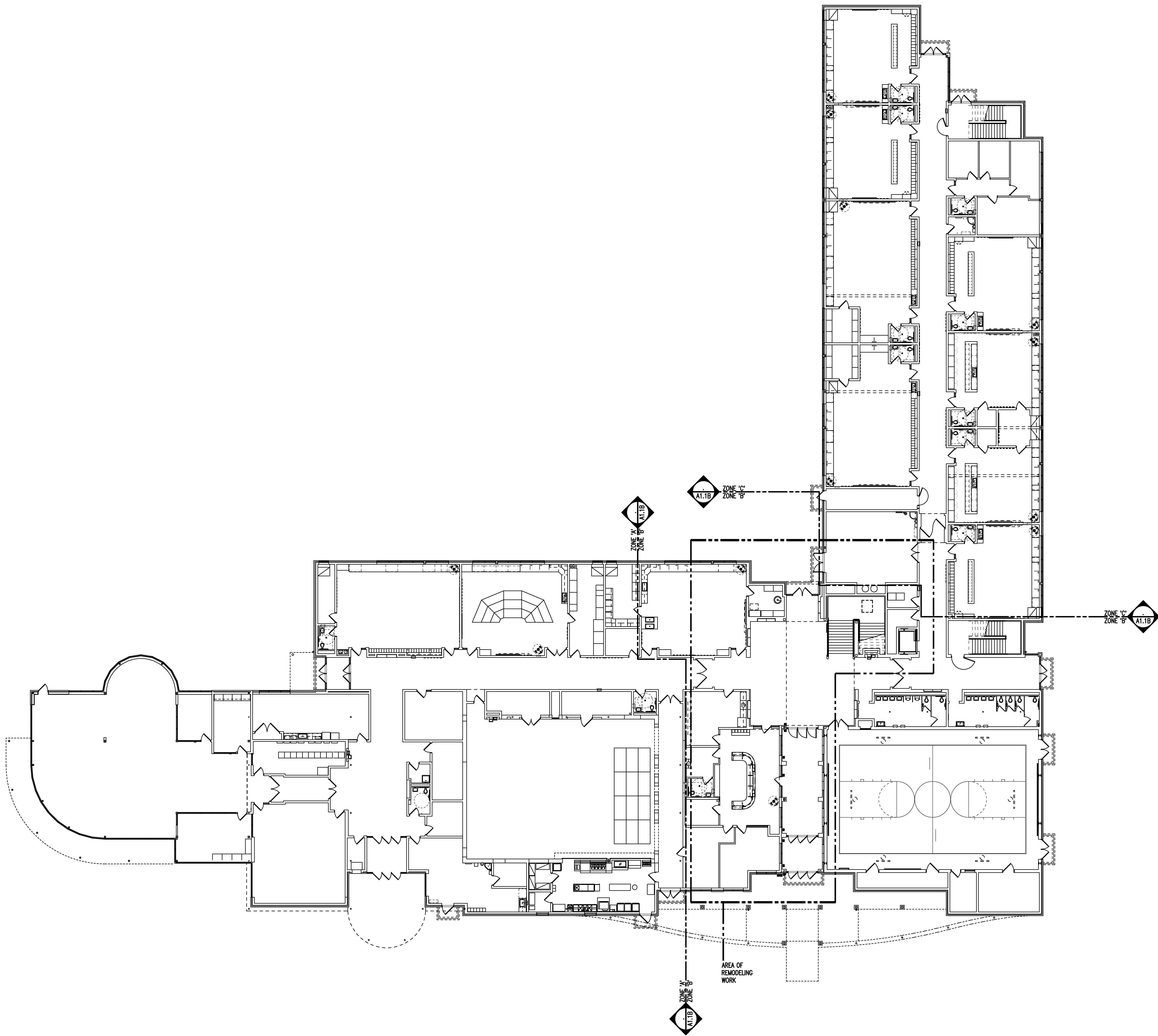
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BEVERLY ELEMENTARY SCHOOL REMODELING

BIRMINGHAM PUBLIC SCHOOLS

BEVERLY HILLS, MI 48025
PROJECT NUMBER 15097
BIDS

<p>CONSULTANTS:</p> <p>MECHANICAL ENGINEER</p> <p>BERBIGLIA ASSOCIATES CONSULTING ENGINEERS</p> <p>36400 WEST 12 MILE ROAD FARMINGTON HILLS, MICHIGAN 48331 PHONE: (248) 489-3161 FAX: (248) 489-3161</p> <p>ELECTRICAL ENGINEER</p> <p>BERBIGLIA ASSOCIATES CONSULTING ENGINEERS</p> <p>36400 WEST 12 MILE ROAD FARMINGTON HILLS, MICHIGAN 48331 PHONE: (248) 489-3161 FAX: (248) 489-3161</p>	<p>CONSULTANT</p> <p>CONSULTANT</p>	<p>LIST OF DRAWINGS</p> <p>GENERAL INFORMATION</p> <p>TS.1 COVER SHEET TG.1 GENERAL INFORMATION</p>	<p>ARCHITECTURAL</p> <p>AC1.1 COMPOSITE FLOOR PLAN</p> <p>AD1.1 DOOR AND FRAME SCHEDULE</p> <p>A0.1B FIRST LEVEL DEMOLITION PLAN - ZONE 'B'</p> <p>A1.1B FIRST LEVEL FLOOR PLAN - ZONE 'B'</p> <p>A10.1B FIRST LEVEL FINISH PLAN - ZONE 'B'</p>	<p>MECHANICAL</p> <p>MC1.1 FIRST LEVEL MECHANICAL COMPOSITE PLAN, SHEET INDEX, ABBREVIATION LIST AND SYMBOL LIST</p> <p>M1.1B FIRST LEVEL MECHANICAL PLAN - ZONE 'B'</p>	<p>ELECTRICAL</p> <p>EC1.1 FIRST LEVEL ELECTRICAL COMPOSITE PLAN, SHEET INDEX, SYMBOL LIST AND LIGHTING FIXTURE SCHEDULE</p> <p>E1.1B FIRST LEVEL LIGHTING PLAN - ZONE 'B'</p> <p>E2.1B FIRST LEVEL POWER AND SYSTEMS PLAN - ZONE 'B'</p> <p>E3.1 MISCELLANEOUS DETAILS AND WIRING DIAGRAMS</p> <p>E3.2 MISCELLANEOUS DETAILS AND WIRING DIAGRAMS</p>	<p>PROJECT DATA:</p> <p>LOCATION MAP</p> <p>BEVERLY HILLS, MI NO SCALE</p>	<p>BUILDING:</p> <p>BUILDING AREA(S) = $\frac{45,100 \text{ SQ. FT. (EXISTING)}}{800 \text{ SQ. FT. (EXISTING ALTERED)}}$</p> <p>CODE:</p> <p>GOVERNING CODES :</p> <ul style="list-style-type: none">- 1999 SCHOOL FIRE SAFETY RULES- (1997 Life Safety Code, plus amendments and policy letters)- 2012 MICHIGAN BUILDING CODE- 2012 MICHIGAN PLUMBING CODE- 2012 MICHIGAN MECHANICAL CODE- 2009 MICHIGAN UNIFORM ENERGY CODE- (ANSI/ASHRAE/IESNA Standard 90.1-2007)- 2014 MICHIGAN ELECTRICAL RULES (2014 NEC, plus Part 8 Rules)- 2010 MICHIGAN ELEVATOR RULES- (ASME A17.1-2010, ASME A18.1-2011)- MICHIGAN BARRIER FREE CODE- (Michigan Building Code 2012 and ICC A117.1-2009)- 2013 MICHIGAN BOILER CODE RULES- (ASME Boiler and Pressure Vessel Code, 2010 edition, plus 2011a addenda)- (National Board Inspection Code [NBIC], 2011 edition) <p>CONSTRUCTION CLASSIFICATION :</p> <p>HFPA II(000) M.B.C. II B</p> <p>USE GROUP CLASSIFICATION: E (EDUCATION)</p> <p>FIRE PROTECTION: FULLY SPRINKLERED</p> <p>.....</p> <p>02-15-2016 BP NO. 1 - BIDS DATE ISSUED FOR:</p>
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FIRST LEVEL COMPOSITE FLOOR PLAN
SCALE: 1/16" = 1'-0"



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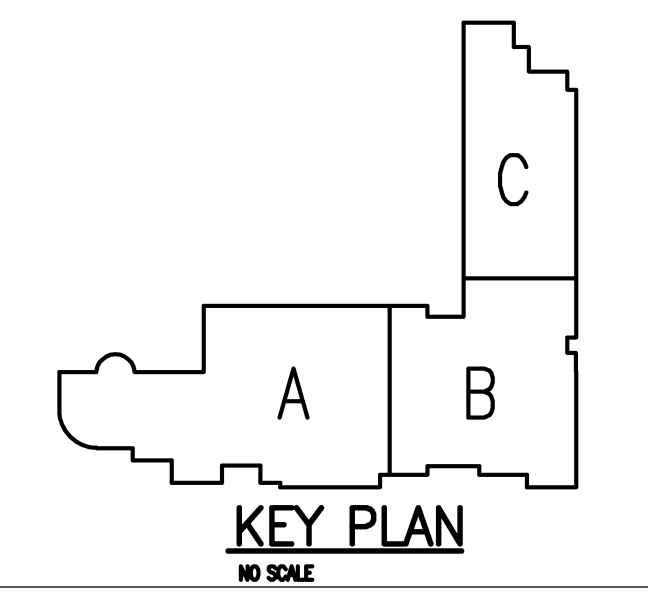
REGISTRATION SEAL

CONSULTANT

PROJECT TITLE
**Beverly
Elementary School
Remodeling**

**Birmingham Public Schools
Beverly Hills, Michigan**

DRAWING TITLE
Composite Floor Plan



ISSUE DATES

DATE	ISSUED FOR:
02-15-2016	BP NO. 1 - BIDS

DRAWN	AKW
CHECKED	JMM
APPROVED	JJC

PROJECT NO.

15097

DRAWING NO.

AC1.1

DOOR & FRAME SCHEDULE																			
Opening		Door				Frame				Details				Threshold	U.L. Label	Hdw. Set	Remarks		
No.	Opening Size (Width x Height)	Type	Material	Finish	Glass	Type	Material	Finish	Glass	Head	Jamb	Sill							
Lower Level - Zone 'B'																			
B101A	3'-0" x 7'-2" (V.I.F.) (EXIST)	C	EX. WD	EX.	EX.	EX.	EX. HM	PTD	-	8 / AD1.1	7 / AD1.1	-	-	-	07	ALTERNATE A-3			
B106	3'-0" x 7'-2" (V.I.F.) (EXIST)	C	EX. WD	EX.	EX.	EX.	EX. HM	PTD	EX.	6 / AD1.1	4 & 5 / AD1.1	-	-	-	03	ALTERNATE A-1: PROVIDE GL-3. ALTERNATE A-2: PROVIDE ACCESS CONTROL SYSTEM			
B106A	3'-0" x 7'-2" (V.I.F.) (EXIST)	C	EX. WD	EX.	EX.	EX.	EX. HM	PTD	EX.*	6 / AD1.1	4 & 5 / AD1.1	-	-	-	04	-			
B107A	3'-0" x 7'-2" (V.I.F.) (EXIST)	A	EX. WD	EX.	-	EX.	EX. HM	PTD	-	8 / AD1.1	7 / AD1.1	-	-	-	07	ALTERNATE A-3			
B106B	6'-8" x 4'-0" (V.I.F.) (EXIST)	WINDOW OPENING				EX.	EX. HM	EX.	EX.*	-	-	-	-	-	-	ALTERNATE A-1: PROVIDE GL-3			
B108C	6'-8" x 4'-0" (V.I.F.) (EXIST)	WINDOW OPENING				EX.	EX. HM	EX.	EX.*	-	-	-	-	-	-	ALTERNATE A-1: PROVIDE GL-3			
B108A	6'-8" x 4'-0" (V.I.F.) (EXIST)	WINDOW OPENING				EX.	EX. HM	EX.	EX.*	-	-	-	-	-	-	ALTERNATE A-1: PROVIDE GL-3			
B111A	3'-0"x 6'-10"	B	FRP	PFN	GL-1	3	AL	PFN	GL-1	3 / AD1.1	1 & 2 / AD1.1	-	-	-	02	ALTERNATE A-1: PROVIDE GL-3			
B111B	3'-0"x 6'-10"	B	FRP	PFN	GL-1	3	AL	PFN	GL-1	3 / AD1.1	1 & 2 / AD1.1	-	-	02	ALTERNATE A-1: PROVIDE GL-3				
B111C	3'-0"x 6'-10"	B	FRP	PFN	GL-1	3	AL	PFN	GL-1	3 / AD1.1	1 & 2 / AD1.1	-	-	01	ALTERNATE A-1: PROVIDE GL-3				
B125C	3'-0"x 6'-10" (V.I.F.) (EXIST)	EX.	FRP	PFN	EX.*	EX.	EX. AL	EX.	EX.*	-	-	-	-	05	ALTERNATE A-1: PROVIDE GL-12				
B125D	3'-0"x 6'-10" (V.I.F.) (EXIST)	EX.	FRP	PFN	EX.*	EX.	EX. AL	EX.	EX.*	-	-	-	-	06	ALTERNATE A-1: PROVIDE GL-12				
B125E	3'-0"x 6'-10" (V.I.F.) (EXIST)	EX.	FRP	PFN	EX.*	EX.	EX. AL	EX.	EX.*	-	-	-	-	06	ALTERNATE A-1: PROVIDE GL-12				
Lower Level - Zone 'C'																			
C111B	PAR 3'-0"x 6'-10"	A	HM	PTD	-	1	HM	PTD	-	6/AD1.1	5/AD1.1	-	-	-	20	-			

(REFER TO SPECIFICATIONS FOR ADDITIONAL DOOR INFORMATION)

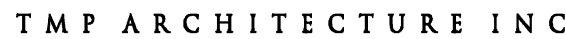
AL	ALUMINUM
ALGL	ALUMINUM AND GLASS
HM	HOLLOW METAL
WD	SOLID CORE HARDWOOD
PFN	PREFINISHED BY MANUFACTURER
PTD	PAINTED
MAR	SYNTHETIC MARBLE THRESHOLD
MET	METAL THRESHOLD
LAM	PLASTIC LAMINATE CLAD
FRP	FIBERGLASS REINFORCED POLYESTER
STSTL	STAINLESS STEEL
STL	STEEL

1. GALVANIZED METAL TO BE PROVIDED FOR HOLLOW METAL DOOR AND/OR FRAME AT EXTERIOR LOCATION.
2. DOORS ARE 1-3/4" THICK UNLESS OTHERWISE NOTED.
3. DETAIL NUMBERS NOTED SIM. REFER TO DETAILS SHOWING HEAD JAMB, AND/OR SILL DETAILS THAT REPRESENT CONDITIONS SIMILAR TO THOSE NOTED.
4. HOLLOW METAL FRAMES SET IN MASONRY WALLS ARE 5 3/4" WIDE.
5. HOLLOW METAL FRAMES, SET IN GYPSUM BOB, (METAL STUD PARTIAL) SHALL BE "DOUBLE BACK-BEND" FRAMES WITH A THROAT DIMENSION EQUAL TO THE PARTITION THICKNESS PLUS 9/16" RETURNS ON SIDE OF THE PARTITION. PROVIDE EQUAL RABBETS.
6. AN ASTRISK (*) CALLS ATTENTION TO THE REMARKS COLUMN OF THE SCHEDULE.

<u>U.L. LABEL**</u>	<u>MIN. OPENING PROTECTION ASSEMBLY</u>
180	3 HR. FIRE RATING
90	1-1/2 HR. FIRE RATING
60	1 HR. FIRE RATING
45	3/4 HR. FIRE RATING
20	1/3 HR. FIRE RATING

**** ALL FIRE RATED DOORS SHALL BE SMOKE AND DRAFT CONTROL LABELED IN ADDITION TO U.L. LABELS INDICATED.**

(REFER TO SPECIFICATIONS FOR ASSEMBLIES)	
GL-1	1/4" CLEAR TEMPERED, MONOLITHIC GLASS
GL-2	1/4" LAMINATED GLASS
GL-3	INTERIOR LAMINATED SECURITY GLASS
GL-6c	60 & 90 MINUTE FIRE RATED GLASS - DOORS
GL-6d	60, 90 OR 120 MIN FIRE RATED GLASS
GL-10	TEMPERED INSULATING GLASS - CLEAR
GL-11	TEMPERED INSULATING GLASS - TINTED
GL-12	EXTERIOR INSULATING LAMINATED SECURITY GLASS



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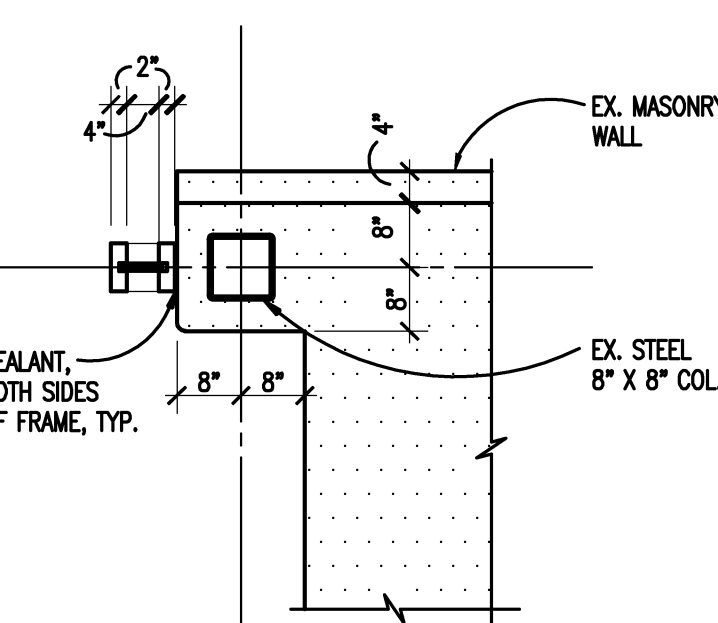
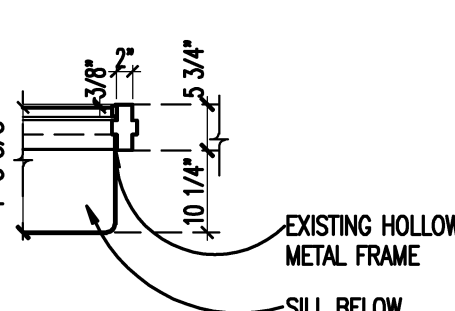
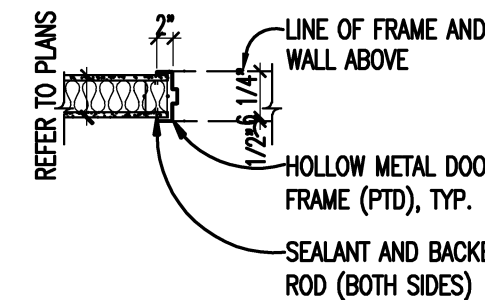
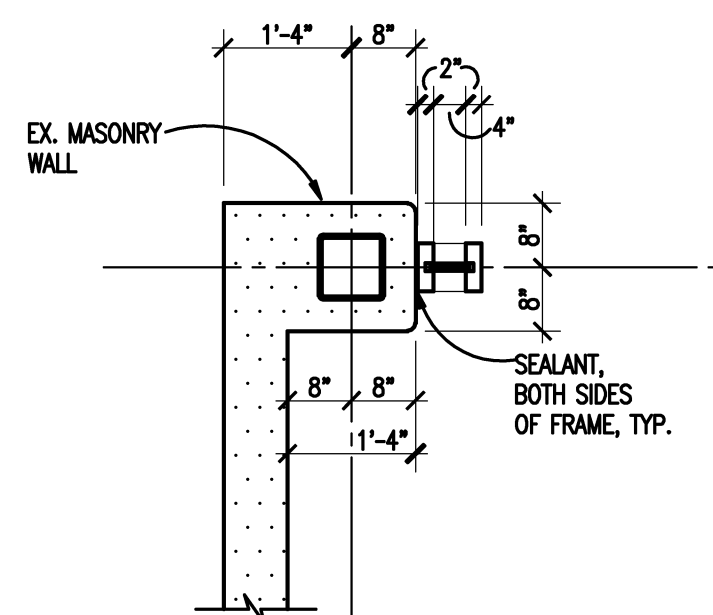
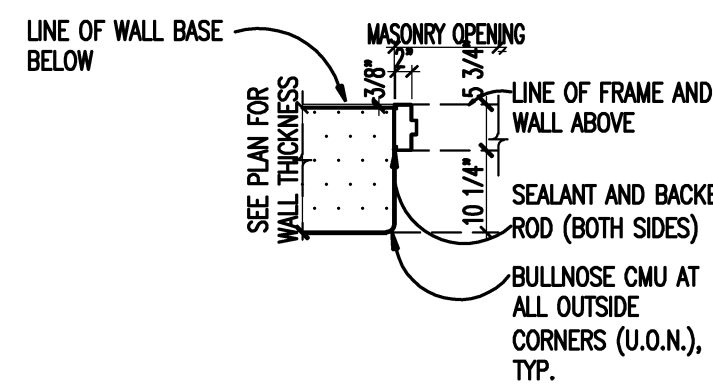
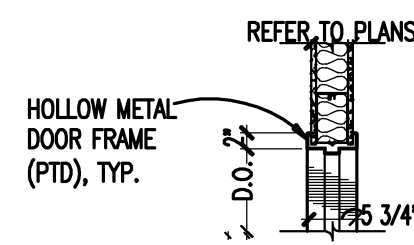
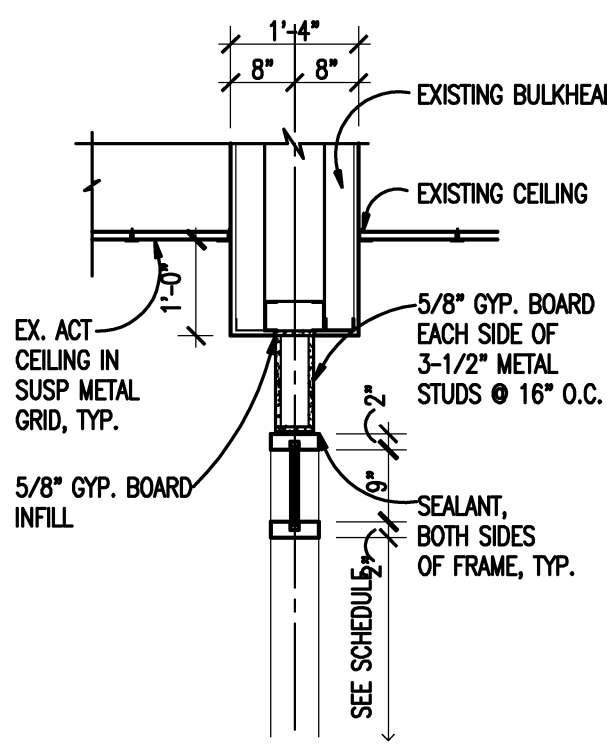
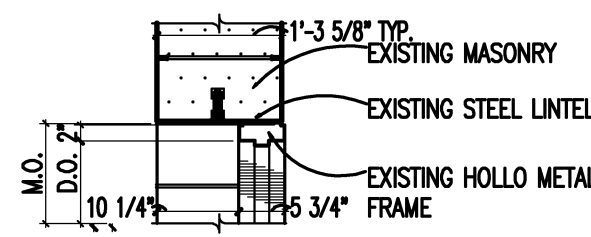
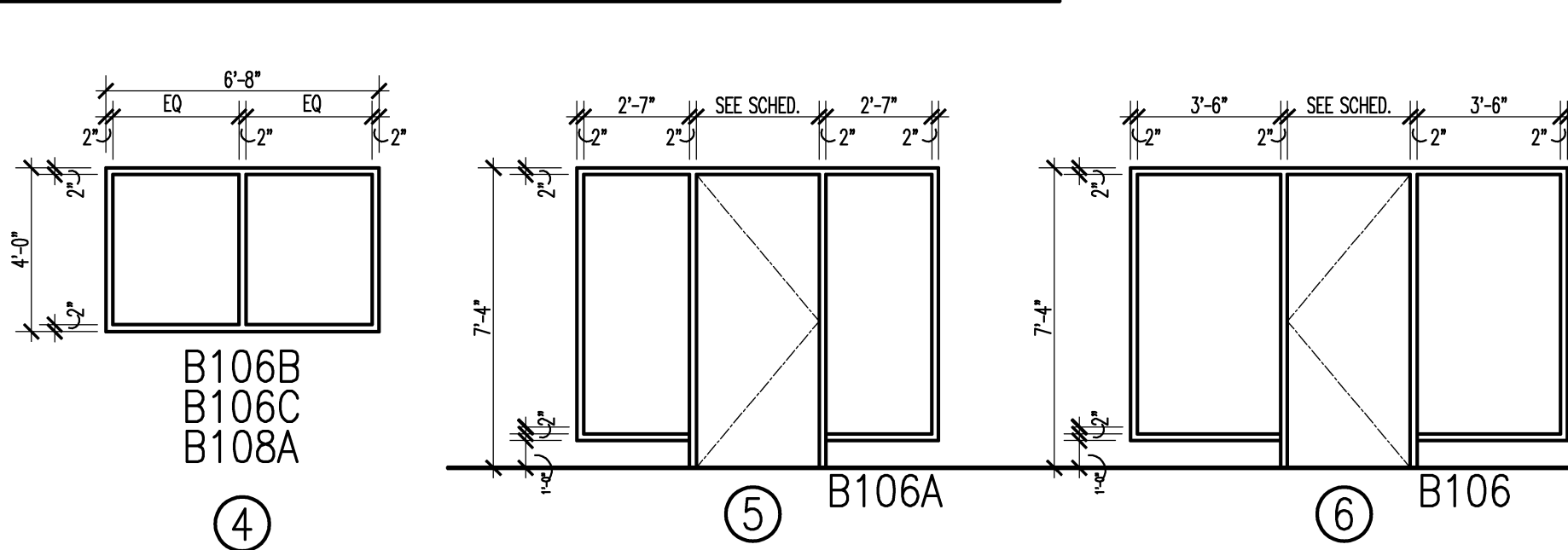
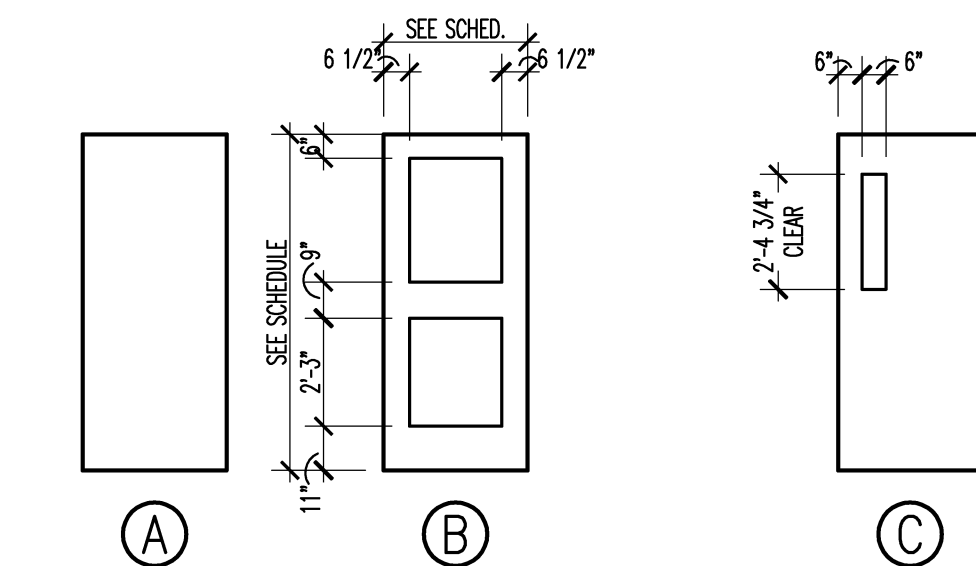
Beverly Elementary School Remodeling

DRAWING TITLE
Door & Frame Schedule

02-15-2016	BP NO. 1 - BIDS
DATE:	ISSUED FOR:
DRAWN	GS, JMM, AKW
CHECKED	JMM
APPROVED	JJC

15097

AD1.1





SCALE: 1/8" = 1'-0"

1. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR RELATED AND ADDITIONAL DEMOLITION AND PATCHING WORK BY MECHANICAL AND ELECTRICAL TRADES.
2. NOT USED.
3. SEE CIVIL DRAWINGS FOR SITE DEMOLITION AND PATCHING WORK.
4. SEE EXTERIOR ELEVATIONS FOR ADDITIONAL DEMOLITION AND PATCHING WORK AT EXTERIOR OF BUILDING, INCLUDING (BUT NOT LIMITED TO) DEMOLITION NOTES RELATED TO WINDOW REPLACEMENT.
5. WHERE REMOVAL OF GASKETS, MILLWORK, CHALKBOARD, TACKBOARD, OR COUNTERS IS INDICATED, FULL HOLES AND PATCH EXISTING WALLS, BASES AND CEILINGS WHICH ARE TO REMAIN EXPOSED.
6. UNLESS OTHERWISE INDICATED, TOOTH NEW MATERIAL INTO EXISTING WHEREVER INFILL REMAINS EXPOSED.
7. SEE SPECIFICATION SECTIONS 01731 AND 01732 FOR ADDITIONAL DEMOLITION AND PATCHING REQUIREMENTS.
8. REFER ALSO TO ARCHITECTURAL WALL SECTIONS FOR ADDITIONAL SELECTIVE DEMOLITION.

- 1 REMOVE MECHANICAL EQUIPMENT, REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL NOTES AND DETAILS. PATCH, REPAIR AND/OR FILL EXPOSED ADJACENT SURFACES TO MATCH EXISTING (U.O.A.).
- 2 REMOVE EXTERIOR DOOR(S), FRAMING AND GLAZING, INCLUDING ADJACENT GLAZED-IN PANELS, ALUMINUM THRESHOLDS AND HARDWARE. TURN OVER DOORS AND HARDWARE TO THE OWNER, FOR THEIR STOCK, IF REQUESTED. MASONRY SILL WALLS BELONG TO REMAIN. PREPARE OPENING TO RECEIVE NEW FRAME.
- 3 REMOVE INTERIOR DOOR(S), FRAMING AND GLAZING, INCLUDING ADJACENT GLAZED-IN PANELS, ALUMINUM THRESHOLDS AND HARDWARE. TURN OVER DOORS AND HARDWARE TO THE OWNER, FOR THEIR STOCK, IF REQUESTED. MASONRY SILL WALLS BELONG TO REMAIN. PREPARE OPENING TO RECEIVE NEW FRAME.
- 4 REMOVE EXISTING LOCKSET. PREPARE DOOR TO RECEIVE NEW ELECTRONIC LOCKSET AND RELATED HARDWARE AS NOTED ON ALTERNATE NO. A-3. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 5 REMOVE EXISTING LOCKSET. PREPARE DOOR TO RECEIVE NEW ELECTRONIC LOCKSET, AND RELATED HARDWARE. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 6 REMOVE GLAZING FROM EXISTING DOOR AND PREPARE OPENING FOR NEW GLAZING AS PART OF ALTERNATE NO. A1.
- 7 REMOVE GLAZING FROM EXISTING FRAME AND PREPARE OPENING FOR NEW GLAZING AS PART OF ALTERNATE NO. A1.
- 8 REMOVE EXISTING FRAME STRIKE AND PREPARE FRAME TO RECEIVE NEW ELECTRONIC STRIKE AS PART OF ALTERNATE NO. A-2. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- 9 REMOVE CARPET FLOOR FINISH AND PREPARE SUBSTRATE TO RECEIVE NEW FINISHES SCHEDULED. REFER TO FINISH DRAWINGS.
- 10 REMOVE RESILIENT TILE FLOOR FINISH AND PREPARE SUBSTRATE TO RECEIVE NEW FINISHES SCHEDULED. REFER TO FINISH DRAWINGS.
- 11 REMOVE EXISTING CABINET UNIT COMPLETE TO PROVIDE ACCESS TO CHASE. STORE UNIT REMEDIAL WORK HATCHER AND REINSTALL.
- 12 REMOVE LOOSE DEBRIS FROM BOTTOM OF EXISTING CHASE AND FROM EXPOSED EDGES OF MASONRY UNITS.

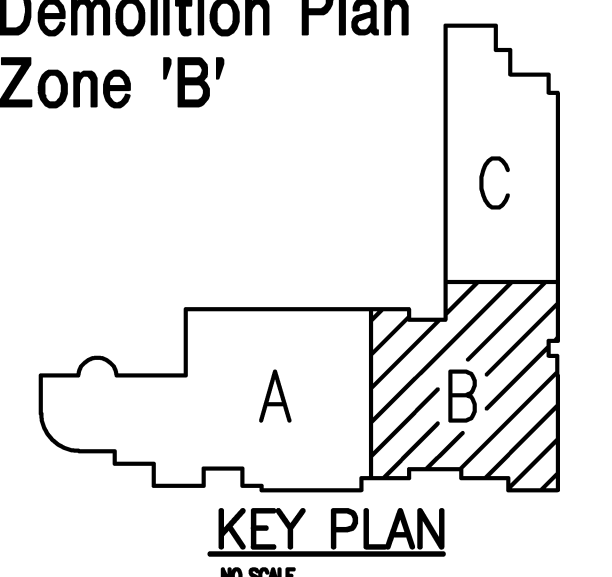
- DOORS AND HARDWARE.
-
-
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CONSULTANT

Beverly Elementary School Remodeling

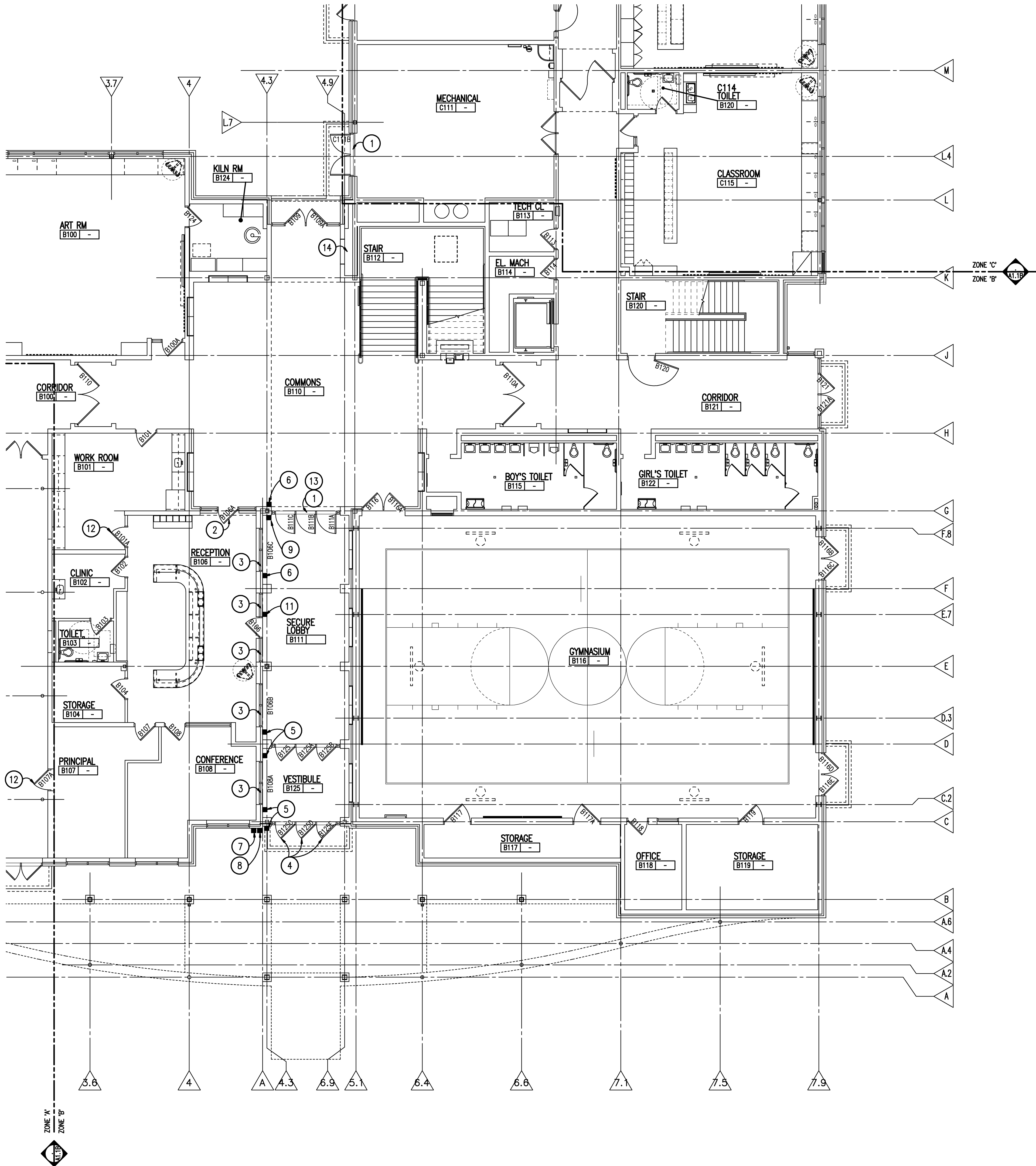
DRAWING TITLE
First Level
Demolition Plan
Zone 'B'



* _____	* _____
* _____	* _____
* _____	* _____
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DATE:	ISSUED FOR:
DRAWN	AKW, GAS
CHECKED	JMM
APPROVED	JJC

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A0.1B



WALL / PARTITION KEY	
	EXISTING WALL CONSTRUCTION
	METAL STUD PARTITION
	CONCRETE MASONRY UNIT WALL w/ HORIZONTAL JOINT REINFORCEMENT AT 16" O.C.
	CAST-IN-PLACE CONCRETE WALL (REFER TO STRUCTURAL FOR REINFORCING REQUIREMENTS)

- GENERAL NOTES**
- COORDINATE SIZE AND LOCATION OF ALL ACCESS PANELS WITH TRADE REQUIRING THE SAME. ACCESS PANELS ARE SPECIFIED ARCHITECTURALLY BUT ARE REQUIRED TO BE PROVIDED BY EACH TRADE. ALL LOCATIONS MUST BE COORDINATED AND APPROVED BY THE ARCHITECT'S FIELD REPRESENTATIVE.
 - CONTRACTORS SHALL VERIFY ALL EXISTING BUILDING DIMENSIONS, PARTITION AND WALL LOCATIONS, AND FLOOR ELEVATIONS IN THE FIELD AND NOTIFY THE ARCHITECT'S REPRESENTATIVE OF ANY DISCREPANCIES BEFORE START OF WORK.
 - FLOOR PLANS ARE DIMENSIONED TO NOMINAL WALL THICKNESS - TYPICAL.
 - DIMENSIONS FOLLOWED BY ± SHOULD BE REVIEWED AND ALL NECESSARY ADJUSTMENTS MADE PRIOR TO FABRICATION AND/OR INSTALLATION OF AFFECTED WORK. NOTIFY ARCHITECT'S REPRESENTATIVE IF DISCREPANCIES ARISE BEFORE PROCEEDING WITH THE WORK.
 - PROVIDE INTERIOR CMU AND GYPSUM BOARD CONTROL JOINTS AT BOTH JAMBS OF DOORS, WINDOWS, AND OPENINGS. PROVIDE AT HEAD AND SILL OF WINDOWS AND PASS THRU OPENINGS.
 - PROVIDE CONTROL JOINTS WHERE INTERIOR CMU (ON SLAB) ABUTS EXTERIOR/INTERIOR MASONRY (ON FOUNDATIONS OR FOOTINGS).
 - VERIFY QUANTITY, SIZE, AND LOCATION OF ALL FLOOR, ROOF, AND WALL OPENINGS FOR MECHANICAL AND ELECTRICAL WORK WITH THE APPROPRIATE TRADE. PROVIDE ALL OPENINGS SHOWN OR REQUIRED FOR THE COMPLETION OF THE WORK. PROVIDE ALL UNITS REQUIRED FOR THESE OPENINGS PER SPECIFICATIONS.
 - REFER TO REFLECTED CEILING PLANS FOR EXTENSION OF PARTITION WALLS TO FLOOR OR ROOF CONSTRUCTION ABOVE AND WALL FIRE RESISTANCE RATING REQUIREMENTS.
 - REFER TO A100_ SERIES DRAWINGS FOR FLOOR FINISH PATTERNS AND ROOM FINISHES.
 - VERIFY ALL DIMENSIONS IN FIELD.
 - PROVIDE WOOD BLOCKING WITHIN STUD WALLS FOR WALL MOUNTED ITEMS i.e. GRAB BARS, TOWEL DISPENSERS, PENCIL SHARPENERS, WALL STOPS, ACCORDIAN PARTITION JAMBS, ETC. REFER ALSO TO A9_ SERIES AND A8_ SERIES DRAWINGS.
 - REFER TO ELECTRICAL DRAWINGS FOR LOCATIONS OF NEW FLOOR MOUNTED, LOW PROFILE RACEWAY ASSEMBLIES. REMOVE AND SALVAGE PORTIONS OF EXISTING CARPET IN AREA WHERE RACEWAY IS TO BE INSTALLED. ONCE RACEWAY IS INSTALLED, REINSTALL CARPET OVER CONCEALED SLOPED BLOCKING PORTION OF RACEWAY TERMINATING CARPET AT METAL EDGE TOW OF RACEWAY.
 - WHERE SURFACE MOUNTED CONDUITS AND/OR RACEWAYS ARE INDICATED ON ELECTRICAL DRAWINGS, FINAL LOCATIONS AND CONFIGURATIONS ARE TO BE REVIEWED AND DETERMINED ON SITE WITH THE ARCHITECT PRIOR TO INSTALLATION.

- PATCHING NOTES**
- REFER TO DEMOLITION PLANS FOR ADDITIONAL PATCHING NOTES.
 - FOR ALL FLOOR SURFACES RECEIVING NEW FLOOR FINISHES, PREPARE SUBSTRATE BY PROVIDING LEVELING AND PATCHING COMPOUNDS RECOMMENDED BY FINISH FLOORING MANUFACTURERS. CONTRACTOR'S BASE BID PROPOSAL SHALL ASSUME THAT ALL AREAS, INDICATED TO RECEIVE NEW FINISHES, WILL REQUIRE FLOOR PREPARATION.
 - PATCH AND REPAIR ALL FLOOR AND WALL SURFACES LEFT DAMAGED OR INCOMPLETE FROM REMOVAL OF EXISTING PARTITIONS, MILLWORK, CASEWORK, CHALKBOARDS, TACKBOARDS, DISPLAY CASES OR OTHER FIXED EQUIPMENT WITH MATERIALS TO MATCH EXISTING, AS ACCEPTABLE TO THE ARCHITECT.
 - MATCH EXISTING MASONRY COURSEING ADJACENT IN EACH AREA AND TOOTH NEW WORK INTO EXISTING, UNLESS OTHERWISE INDICATED.
 - AT EXISTING FLOOR FINISHES TO REMAIN, THAT BECOME SUBSTRATES FOR NEW FLOOR FINISHES, PATCH AND FILL EXISTING AS REQUIRED TO PREPARE FOR NEW FLOOR FINISH UNTIL ACCEPTABLE TO NEW FLOOR FINISH CONTRACTOR.
 - TOOTH-IN MASONRY INTO EXISTING, U.O.N., INCLUDING JAMBS OF DOOR AND OTHER OPENINGS.

- CONSTRUCTION KEY NOTES**
- INSTALL NEW DOORS, FRAMES, GLAZING AND HARDWARE. REFER TO DRAWING AD1.1 FOR ADDITIONAL INFORMATION.
 - INSTALL NEW DOOR HARDWARE. REFER TO DRAWING AD1.1 FOR ADDITIONAL INFORMATION.
 - INSTALL NEW GLAZING IN EXISTING FRAMES AS PART OF ALTERNATE NO. A1
 - INSTALL NEW GLAZING IN EXISTING DOORS AS PART OF ALTERNATE NO. A1
 - EXISTING POWER DOOR OPERATOR ACTUATOR SWITCH TO REMAIN
 - NEW POWER DOOR OPERATOR ACTUATOR SWITCH
 - EXISTING INTERCOM BOX TO REMAIN
 - EXISTING KEYPAD/PROXIMITY READER TO REMAIN
 - NEW KEYPAD/PROXIMITY READER
 - NEW PROXIMITY READER
 - NEW PROXIMITY READER AND ELECTRONIC STRIKE (REFER TO ALTERNATE A-2)
 - PROVIDE NEW LOCKSET TIED INTO SECURITY SYSTEM AS PER ALTERNATE NO. A-3.
 - PROVIDE NEW SECURITY GLAZING IN LIEU OF SCHEDULED GLAZING IN NEW DOORS AND NEW FRAMING AS PER ALTERNATE NO. A-1.
 - PROVIDE COMPACTED GRANULAR FILL IN EXISTING CHASE SPACE TO AN ELEVATION 5" BELOW FLOOR SLAB ELEVATION. INSTALL 6 MIL VAPOR BARRIER OVERFILL. INSTALL 5" CONCRETE TO FLOOR SLAB ELEVATION AND TROWL TO SMOOTH FINISH. REINSTALL CABINET UNIT HEATER.



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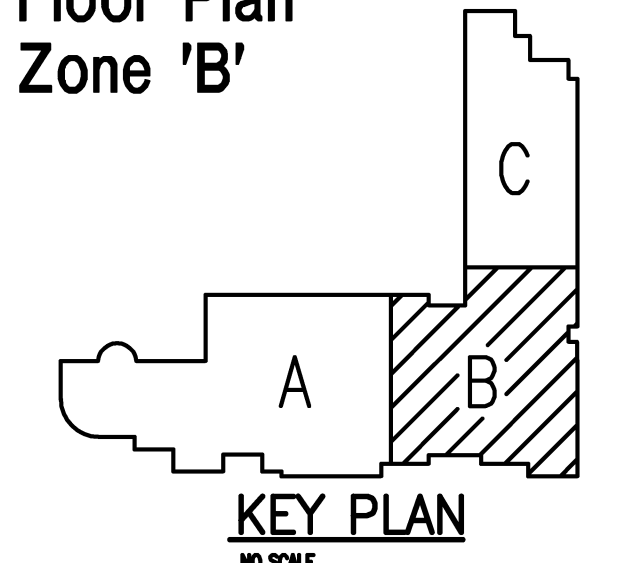
REGISTRATION SEAL

CONSULTANT

PROJECT TITLE
**Beverly
Elementary School
Remodeling**

Birmingham Public Schools
Beverly Hills, Michigan

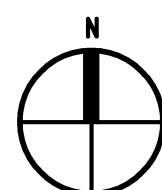
DRAWING TITLE
**First Level
Floor Plan -
Zone 'B'**



ISSUE DATES

02-15-2016 BP NO. 1 - BIDS
DATE ISSUED FOR:
DRAWN AKW, GAS
CHECKED JMM
APPROVED JJC

PROJECT NO.
15097
DRAWING NO.
A1.1B



FIRST LEVEL FLOOR PLAN - ZONE 'B'
SCALE: 1/8" = 1'-0"



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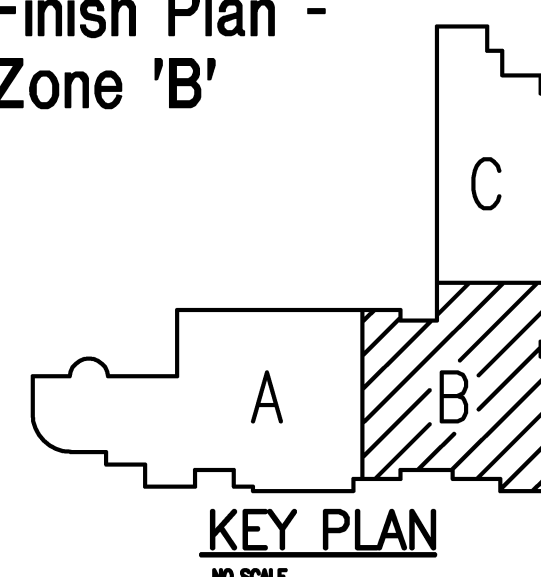
REGISTRATION SEAL

CONSULTANT

PROJECT TITLE
**Beverly
Elementary School
Remodeling**

Birmingham Public Schools
Beverly Hills, Michigan

DRAWING TITLE
**First Level
Finish Plan -
Zone 'B'**



ISSUE DATES

02-15-2018 BP NO. 1 - BIDS
DATE: ISSUED FOR:

DRAWN LMC
CHECKED JMM
APPROVED JJC

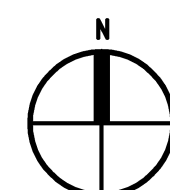
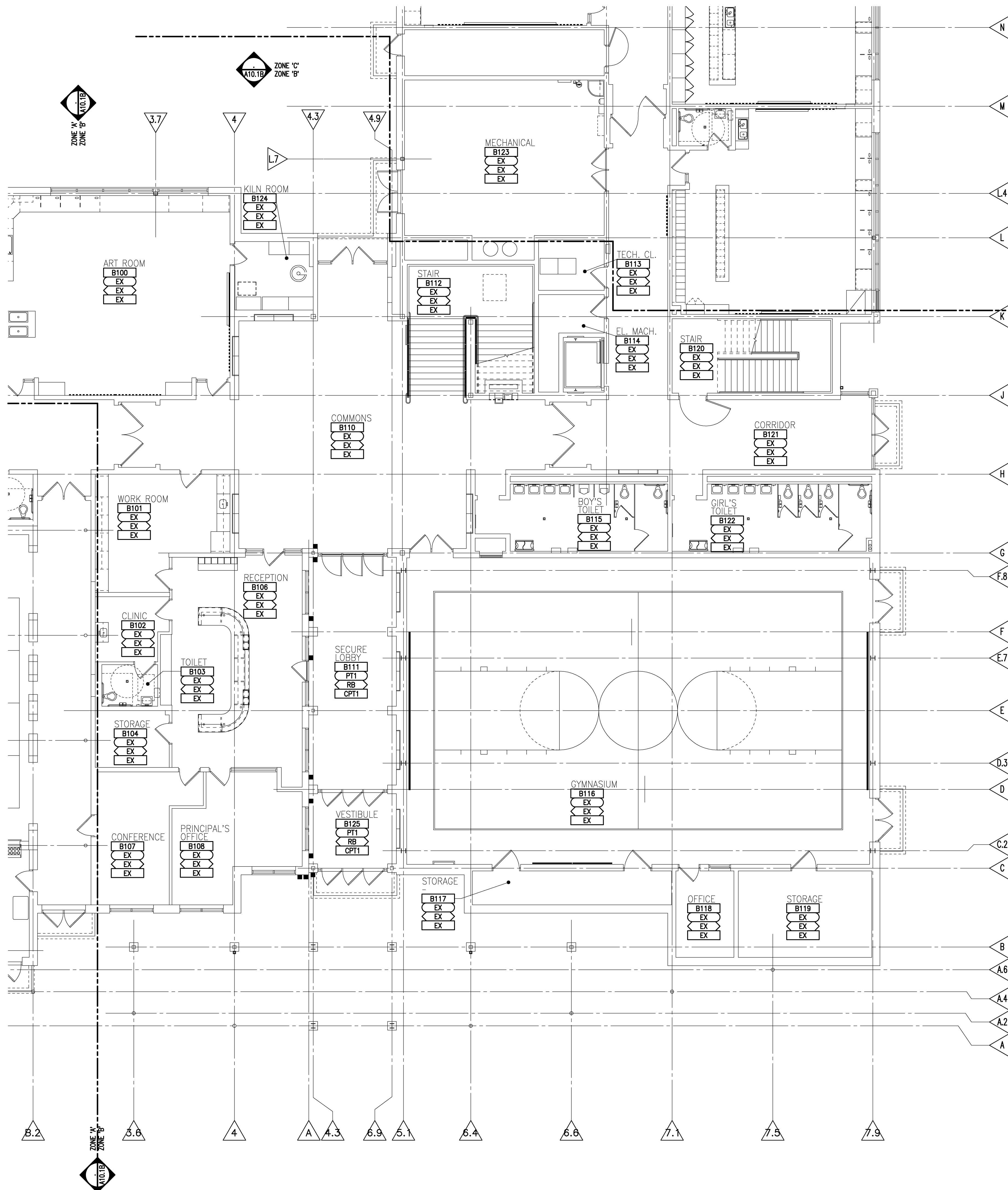
PROJECT NO.

15097

DRAWING NO.

A10.1B

FINISH LEGEND	
ROOM FINISH TAGS: ROOM NAME AND NUMBER PLUS GENERAL ROOM FINISH INFORMATION. FINISH TAGS SHALL APPLY TO ALL LIKE MATERIALS WITHIN A ROOM (U.O.N.).	FINISH LEGEND: FINISH LEGEND IS GENERAL. REFER TO SPECIFICATIONS FOR SPECIFIC FINISH INFORMATION. MULTIPLE FINISH TYPES ARE DENOTED BY NUMBER FOLLOWING ABBREVIATION.
CLASSROOM TGT PT RB CPT	ROOM NAME ROOM NUMBER WALL FINISH (SEE BELOW) BASE (SEE BELOW) FLOOR FINISH (SEE BELOW)
	PT-P RB CPT-P
	DENOTES PATTERN DETAIL
	REFER TO "SPECIFIC NOTES" BELOW
	PL - PLASTIC LAMINATE TYPE/COLOR (TAG APPLIES TO ALL CABINETS AND/OR COUNTERTOPS WITHIN THAT SPACE, U.O.N.)
WALLS	
EX	EXISTING (NO NEW FINISH)
PT	PAINT
BASE	
EX	EXISTING (NO NEW FINISH)
NB	NO BASE, WALL FINISH EXTENDS TO FLOOR
RB	RESILIENT BASE
FLOORS	
CPT	CARPET
EX	EXISTING (NO NEW FINISH)
GENERAL NOTES	
1. REFER TO REFLECTED CEILING PLANS FOR CEILING TYPES, HEIGHTS AND FINISH INFORMATION.	
2. PROVIDE RESILIENT BASE AT THE KICK OF ALL CASWORK AND BEHIND ALL MOVABLE EQUIPMENT/APPLIANCES, WHEN SCHEDULED WITHIN A ROOM.	
3. ALL WALL MOUNTED MECHANICAL EQUIPMENT (DIFFUSERS, GRILLES, ETC.) AND ELECTRICAL EQUIPMENT (PANELS, ETC.) SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR QUANTITIES AND LOCATIONS.	
4. REFER TO SPEC. SECTION 01230 FOR COMPLETE LIST AND DESCRIPTION OF ALTERNATIVES.	
5. WHERE REMOVAL OR MODIFICATION TO A FINISH MATERIAL IS SHOWN, BUT NEW FINISHES ARE NOT SCHEDULED, PATCH AND REPAIR TO MATCH EXISTING FINISH CONDITION AS REQUIRED.	
6. PROVIDE APPROPRIATE TRANSITION STRIPS BETWEEN DISSIMILAR FLOORING MATERIALS AT VERTICAL AND/OR HORIZONTAL APPLICATIONS.	
7. FLOOR FINISHES AND BASES (N.I.C.) AND SHALL BE FURNISHED AND INSTALLED BY OWNER. FLOOR AND BASE SHOWN ON PLAN FOR REFERENCE ONLY.	
SPECIFIC NOTES	
①	
②	
③	



FIRST LEVEL FINISH PLAN - ZONE 'B'
SCALE: 1/8" = 1'-0"

REGISTRATION SEAL

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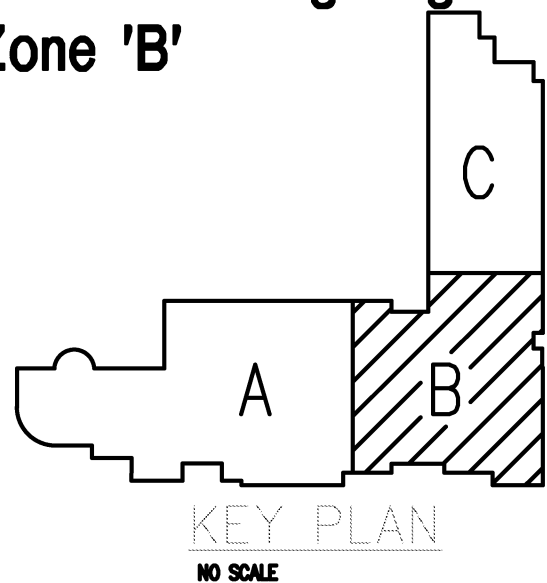
PROJECT TITLE

**Beverly
Elementary School
Remodeling**

**Birmingham Public Schools
Bloomfield Hills, Michigan**

DRAWING TITLE

**First Level Lighting Plan -
Zone 'B'**



ISSUE DATES

02-15-2016	B.P.No. 1 - BDS
DATE	ISSUED FOR:
DRAWN	CC
CHECKED	AZ
APPROVED	JB

PROJECT NO.

15097

DRAWING NO.

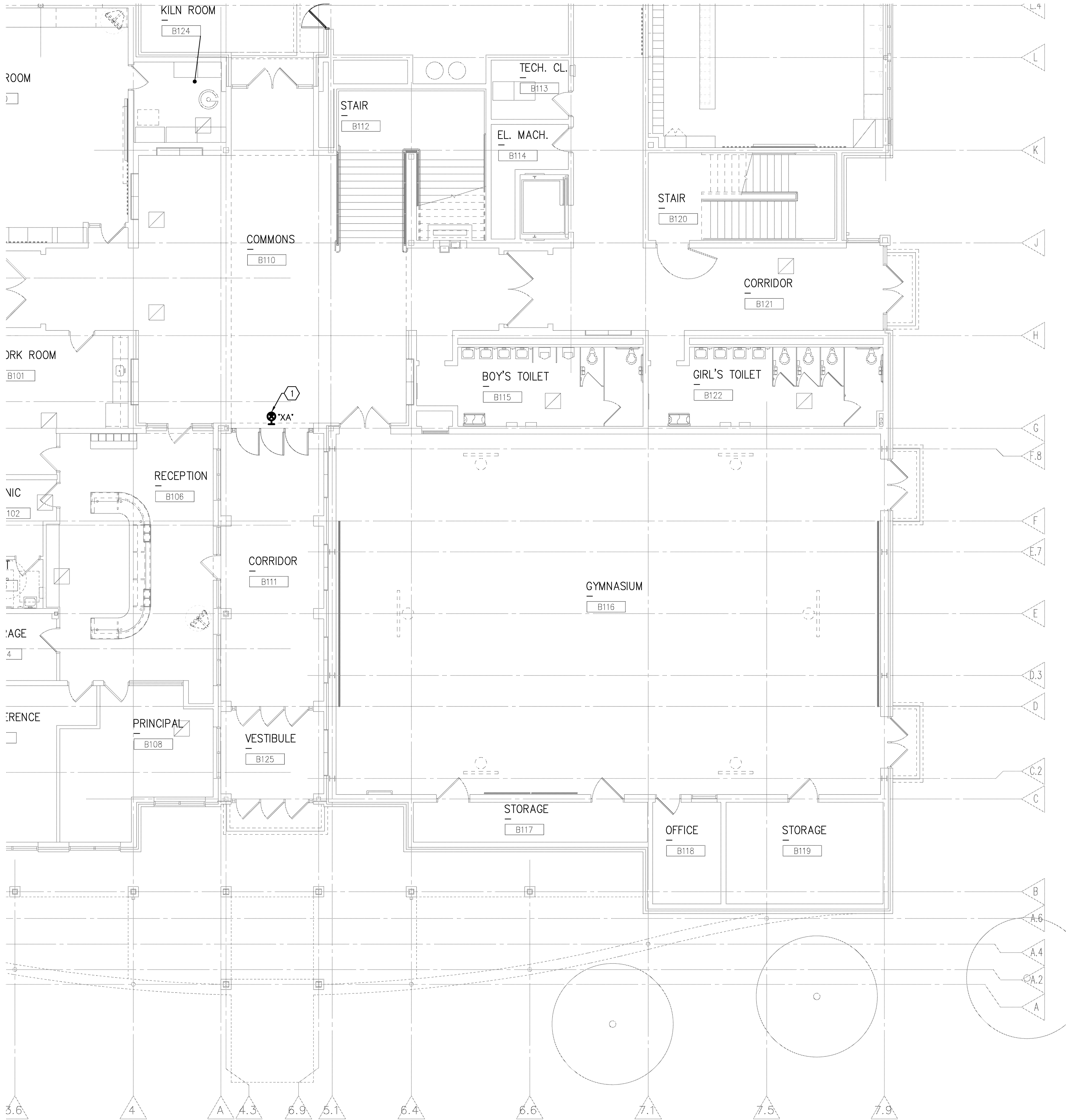
E1.1B

LIGHTING GENERAL NOTES:

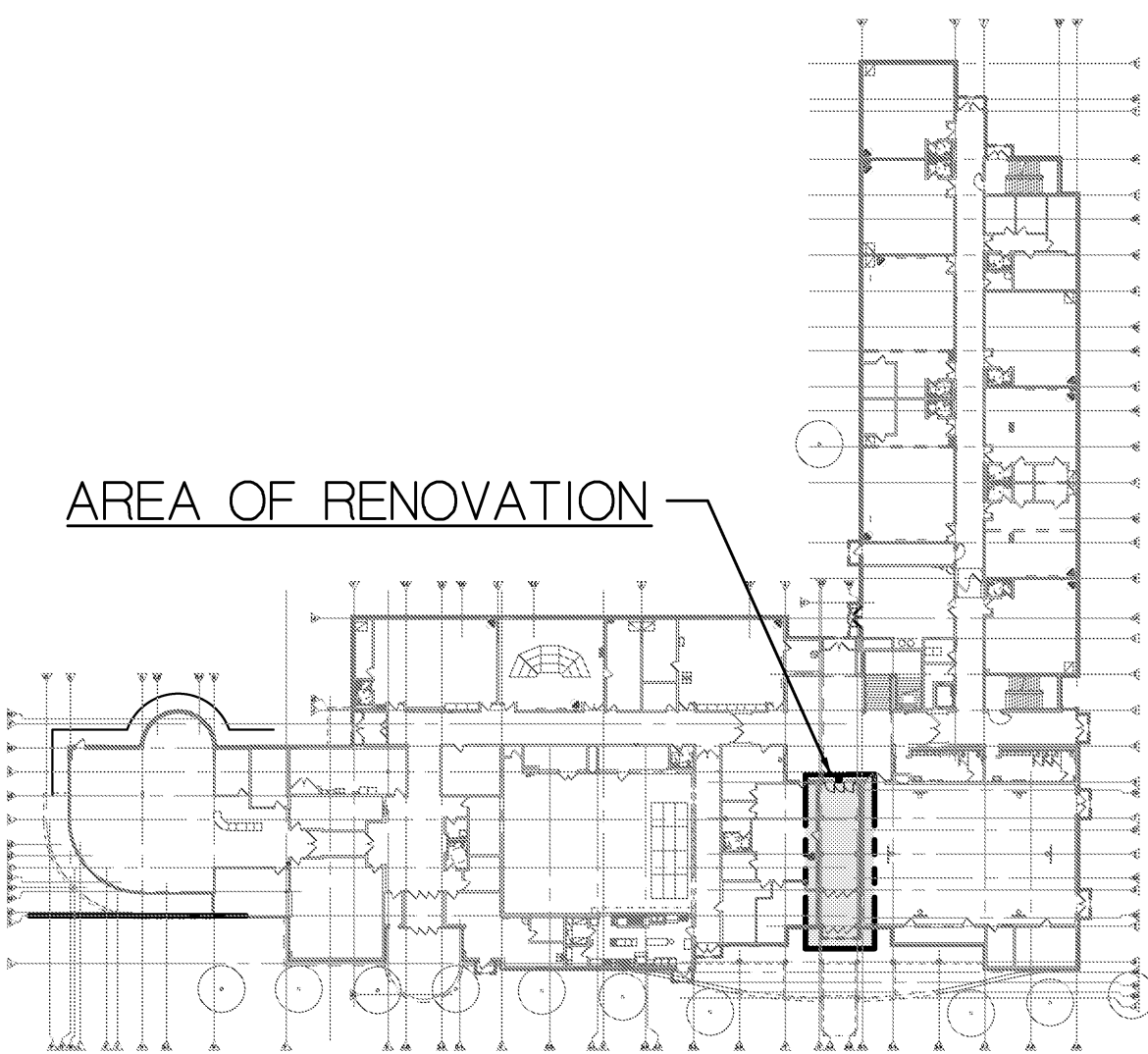
- 1 REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS.
- 2 REFER TO THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATION OF LIGHT FIXTURES.
- 3 ALL LIGHT FIXTURES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE AND IN ACCORDANCE WITH NEC AND LOCAL REQUIREMENTS.
- 4 ALL LIGHTING TO REMAIN, SERVED ON A CIRCUIT DOWNSTREAM OF LIGHTING OR DEVICES BEING DEMOLISHED OR REVISED SHALL REMAIN OPERATIONAL. PROVIDE ALL BRANCH CIRCUIT WIRING REVISIONS AS REQUIRED TO MAINTAIN OPERATION OF LIGHTING, NOT INTENDED TO BE REVISED.
- 5 CONTRACTOR SHALL FIELD VERIFY EXACT MOUNTING REQUIREMENTS FOR ALL EXIT LIGHTS PRIOR TO ORDERING.
- 6 ALL CONDUIT AND WIRING SHALL BE CONCEALED IN ALL FINISHED AREAS.
- 7 ALL JUNCTION BOXES SERVING BRANCH CIRCUIT WIRING SHALL BE LABELED WITH CIRCUITS BEING SERVED. USE INDELIBLE MARKER ON BOX COVER.
- 8 CIRCUIT NUMBERS INDICATED ON PLAN DO NOT INDICATE ACTUAL CIRCUIT BREAKER POLE POSITION IN PANEL, BUT REPRESENT ITEMS GROUPED ON SAME CIRCUIT.

LIGHTING KEY NOTES:

- ① SERVE FROM THE EXISTING EMERGENCY LIGHTING CIRCUIT SERVING AREA.



FIRST LEVEL LIGHTING PLAN - ZONE 'B'
SCALE: 1/16" = 1'-0"



FIRST LEVEL KEY PLAN
NOT TO SCALE

1/16" 0 2 4 6 8 10 20 40 80 1/8" 0 1 2 3 4 5 10 20 40

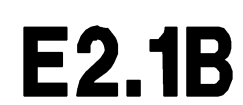
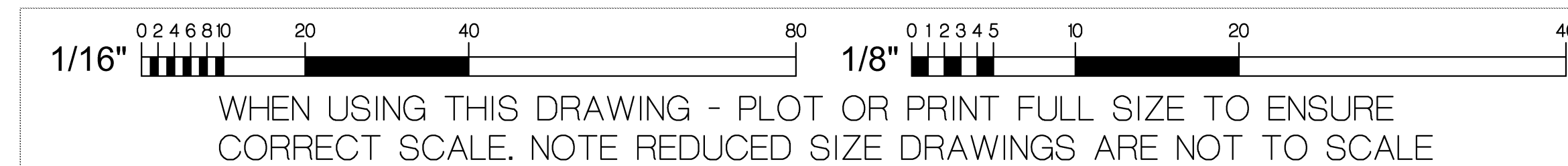
WHEN USING THIS DRAWING - PLOT OR PRINT FULL SIZE TO ENSURE CORRECT SCALE. NOTE REDUCED SIZE DRAWINGS ARE NOT TO SCALE

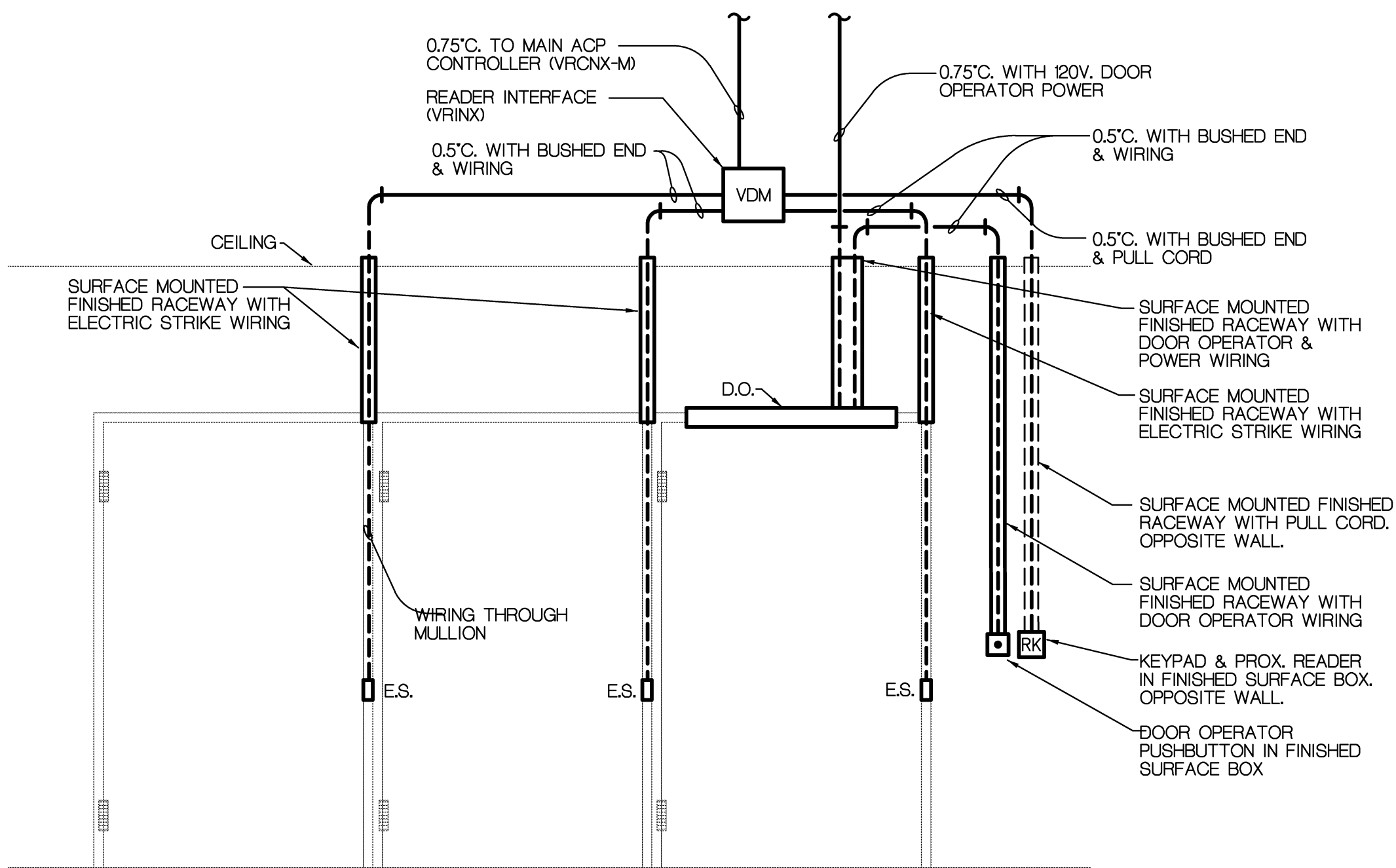
"IN CARPET" FINISHED WIREWAY SYSTEM SHALL BE CONNECTRAC "IN CARPET" SYSTEM. COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE CONNECTRAC INSTALLATION RECOMMENDATIONS AND REQUIREMENTS.

(FKCD) PROXIMITY READER/KEYPAD CONTROLLED DOOR.

4 120-VOLT CIRCUIT, TO NEW OR SPARE 20A-P. CIRCUIT BREAKER IN NEAREST AVAILABLE NON-TECHNOLOGY RECEPTACLE PANEL. FIELD VERIFY EXISTING CONDITIONS. TWO (2) DOOR OPERATORS MAY BE SERVED WITH ONE 20A CIRCUIT.

41 FIRE ALARM SYSTEM TESTING SHALL INCLUDE THE PERCENTAGE OF EXISTING SYSTEM-UNALTERED DEVICES, WIRING AND EQUIPMENT AS
REQUIRED BY THE AUTHORITY HAVING JURISDICTION.





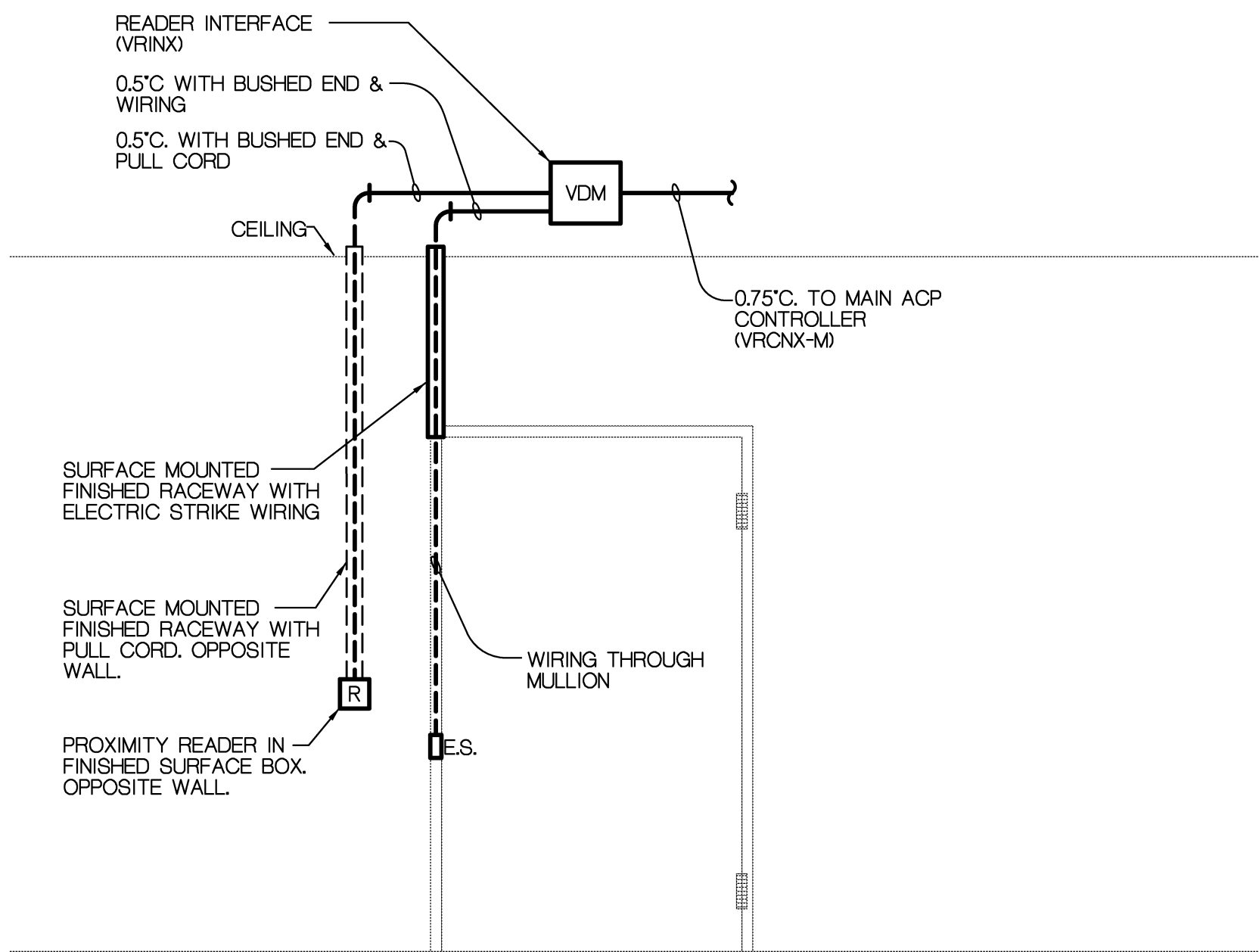
DOOR DIAGRAM

NO SCALE

NOTES:

1. SEE DOOR WIRING DIAGRAM SHEET E3.2.
2. SEE FLOOR PLAN FOR ALL OPERATORS.
3. DOORS B11A, B11B, B11C.

B
E2/B



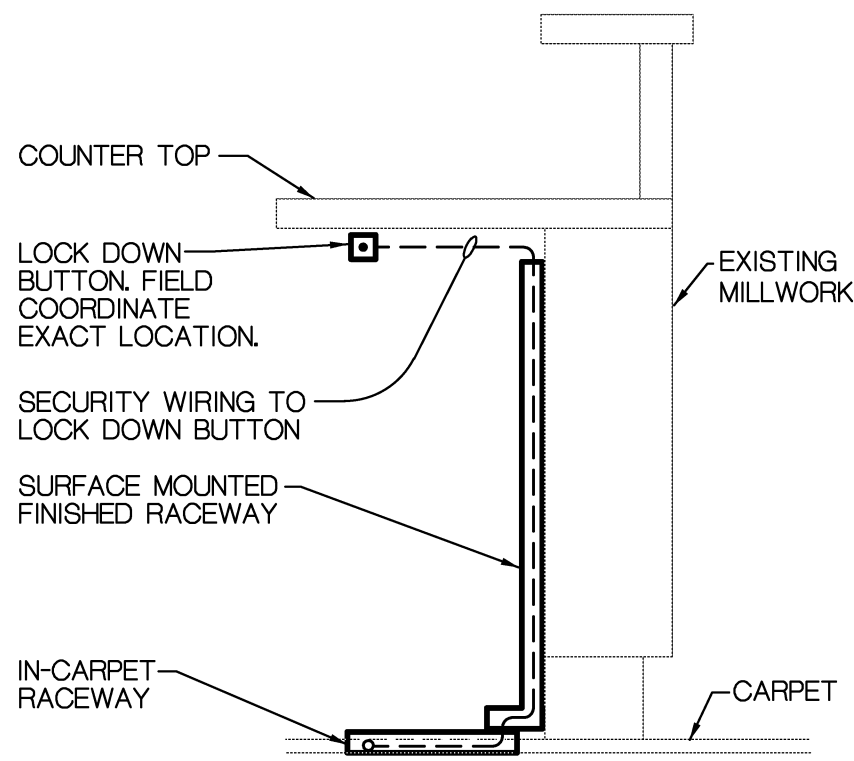
DOOR DIAGRAM

NO SCALE

NOTES:

1. SEE DOOR WIRING DIAGRAM SHEET E3.2.
2. SEE FLOOR PLAN FOR ALL OPERATORS.
3. DOOR B106.

D
E2/B



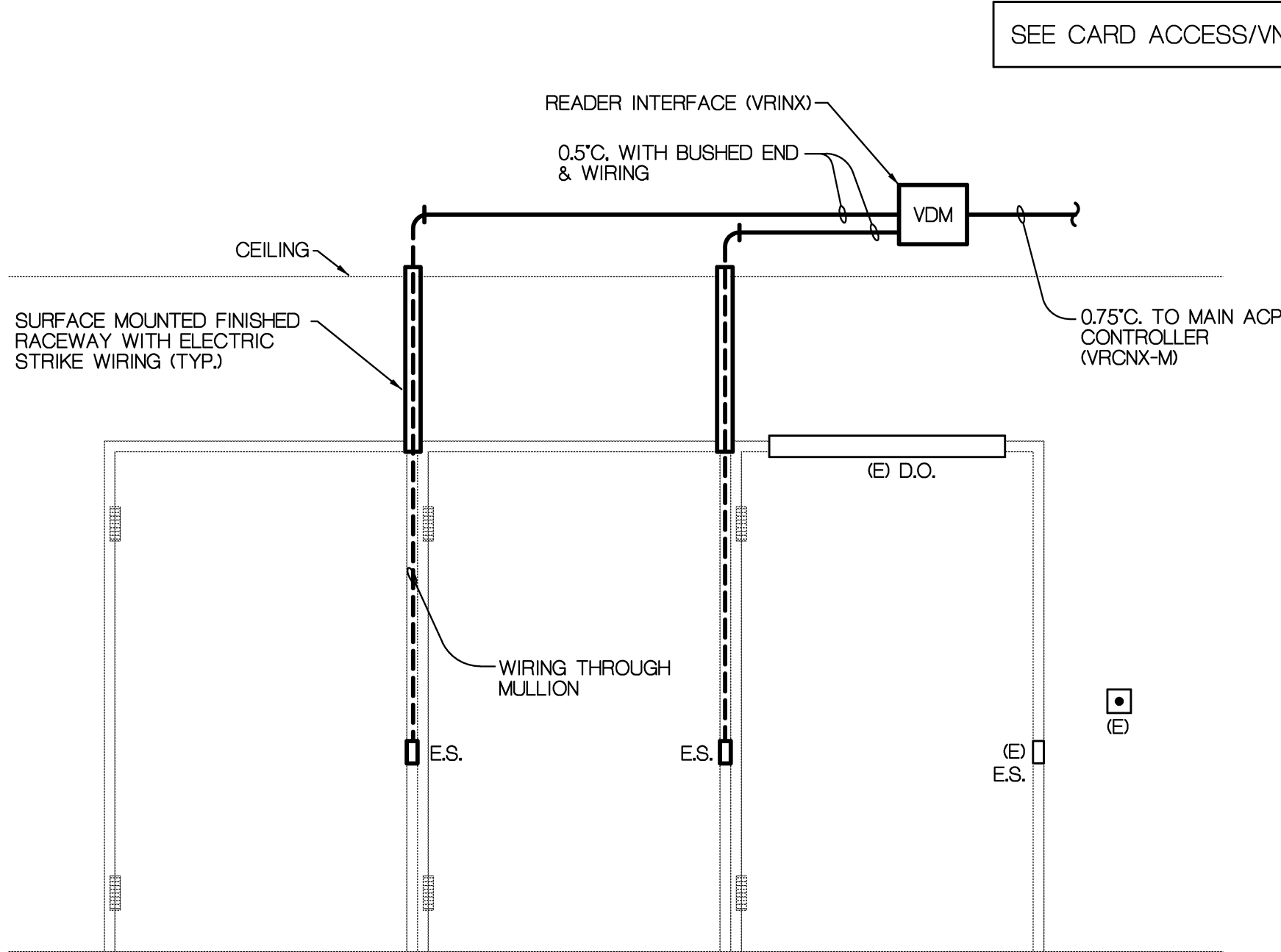
IN-CARPET RACEWAY

NO SCALE

NOTES:

1. SEE DOOR WIRING DIAGRAM SHEET E3.2.
2. SEE FLOOR PLAN FOR ALL OPERATORS.
3. DOOR B10A.

ICR
E3.1



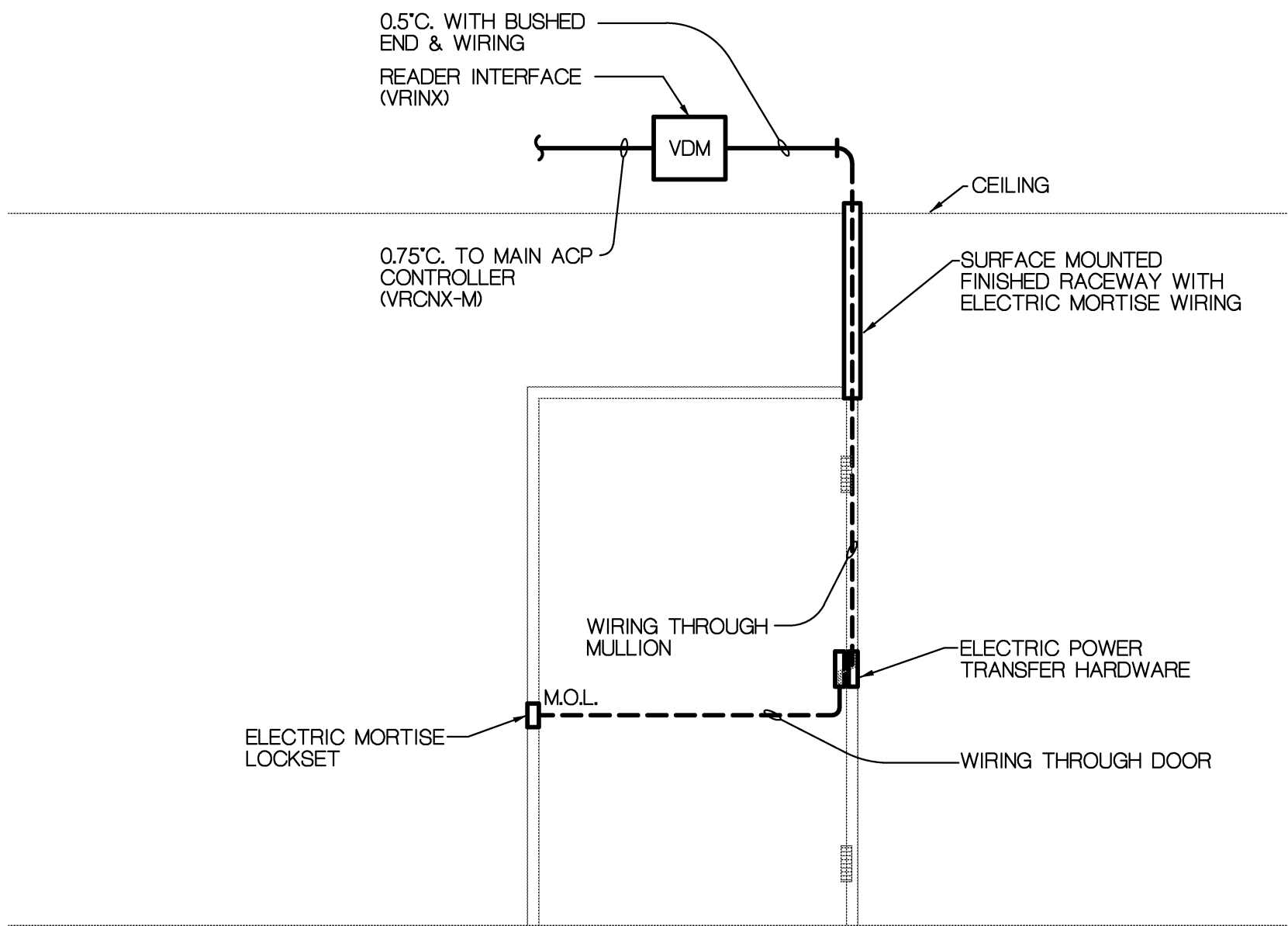
DOOR DIAGRAM

NO SCALE

NOTES:

1. SEE DOOR WIRING DIAGRAM SHEET E3.2.
2. SEE FLOOR PLAN FOR ALL OPERATORS.
3. DOORS B125C, B125D, B125E.

A
E2/B



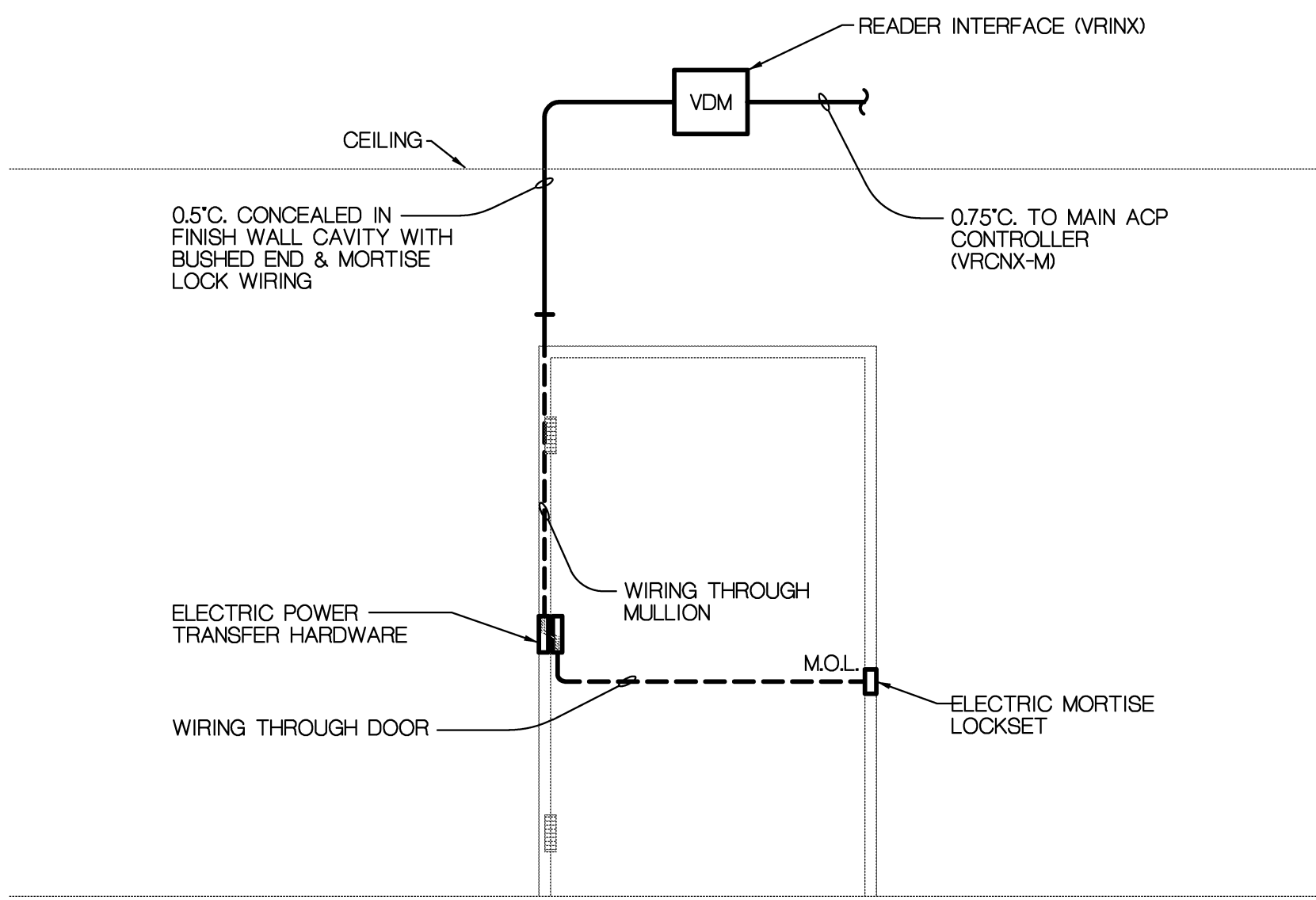
DOOR DIAGRAM

NO SCALE

NOTES:

1. SEE DOOR WIRING DIAGRAM SHEET E3.2.
2. SEE FLOOR PLAN FOR ALL OPERATORS.
3. DOOR B106A OPPOSITE HAND.
4. DOOR B107A.

C
E2/B



DOOR DIAGRAM

NO SCALE

NOTES:

1. SEE DOOR WIRING DIAGRAM SHEET E3.2.
2. SEE FLOOR PLAN FOR ALL OPERATORS.
3. DOOR B10A.

E
E2/B

SEE CARD ACCESS/VNS LEGEND SHEET E3.2

CARD ACCESS/VNS SYSTEM GENERAL NOTES:

1. REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS.
2. REFER TO POWER AND SYSTEM GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
3. THE DISTRICT UTILIZES A VISITOR NOTIFICATION SYSTEM (VNS). THE VNS UTILIZES A NUMBER OF INTEGRATED BUILDING SYSTEMS INCLUDING CARD ACCESS, VIDEO SECURITY, TELEPHONE/INTERCOM, LOCK DOWN, ETC.
4. ALL CARD ACCESS REVISIONS SHALL BE PERFORMED BY A CARD ACCESS SYSTEM CONTRACTOR WHO SHALL BE A SUBCONTRACTOR TO THE ELECTRICAL CONTRACTOR. REFER TO SPECIFICATIONS FOR A LIST OF ACCEPTABLE SUBCONTRACTORS.
5. ALL CARD ACCESS SYSTEM REVISIONS SHALL BE COORDINATED WITH DOOR HARDWARE REVISIONS AND ARCHITECTURAL TRADES.
6. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR THE SEQUENCE OF OPERATION AT EACH DOOR AND A DESCRIPTION OF THE INTENDED DOOR CONTROL SECURITY.
7. THE EXACT LOCATION OF ALL READERS, OPERATORS, PUSHBUTTONS, ETC. SHALL BE COORDINATED WITH AND APPROVED BY ARCHITECTURAL TRADES AND DISTRICT STAFF PRIOR TO ROUGH-IN.
8. ALL READERS, OPERATORS, PUSHBUTTONS, ETC. SHALL BE LOCATED AT 480 AFF UNLESS OTHERWISE NOTED OR INDICATED.
9. WIRING, CONNECTIONS AND REVISIONS FOR ALL DOOR HARDWARE COMPONENTS AND DEVICES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, WIRING DIAGRAMS AND INSTALLATION INSTRUCTIONS AND THE EQUIPMENT SHOP DRAWINGS. INSTALLER SHALL OBTAIN SAME PRIOR TO INSTALLATION.
10. ALL CARD ACCESS AND/OR VNS SYSTEM REVISIONS SHALL BE TESTED FOR PROPER OPERATION.
11. EXISTING DOOR POWER SUPPLIES MAY BE USED TO SERVE NEW LOAD PROVIDED THE POWER SUPPLY IS NOT LOADED MORE THAN 75% OF IT NAMEPLATE RATING.
12. LABEL ALL DOOR POWER SUPPLIES WITH THE PANEL AND CIRCUIT FROM WHICH THEY ARE SERVED. USE AN INDELIBLE MARKER. NEATLY LABEL BY HAND ON THE INSIDE OF THE POWER SUPPLY ENCLOSURE.
13. SUBMIT SHOP DRAWINGS ON ALL CARD ACCESS SYSTEM EQUIPMENT AND COMPONENTS. INCLUDE WITH SHOP DRAWINGS THE RATING AND LOADING OF ALL NEW POWER SUPPLIES.
14. ALL POWER SUPPLY LOADING SHALL BE BASED ON DOOR HARDWARE SHOP DRAWINGS.
15. ALL POWER SUPPLIES SHALL BE LABELED WITH THE PANEL AND CIRCUIT FROM WHICH IT IS SERVED.
16. PROVIDE NEW 120 VOLT BRANCH CIRCUIT WIRING TO SERVE ALL NEW DOOR POWER SUPPLIES. EXISTING 120 VOLT CIRCUITS SERVING EXISTING DOOR SUPPLIES MAY BE USED TO SERVE NEW POWER SUPPLIES PROVIDED THE EXISTING 120 VOLT CIRCUIT IS NOT LOADED GREATER THAN 14 AMPS.
17. ALL NEW 120 VOLT CIRCUITS SERVING DOOR POWER SUPPLIES SHALL ORIGINATE FROM THE CIRCUIT BREAKER PANEL CURRENTLY SERVING POWER SUPPLIES IN THE AREA. TYPICALLY THIS WILL BE A PANELBOARD PROVIDED WITH TRANSIENT VOLTAGE SURGE SUPPRESSION AND SERVED FROM THE GENERATOR. ALL CARD ACCESS SYSTEM POWER MUST BE SERVED FROM A GENERATOR POWERED PANEL.
18. CARD ACCESS SYSTEM DETAILS AND DIAGRAMS ARE PROVIDED TO CONVEY THE SYSTEM OPERATION AND DESIGN INTENT. DETAILS AND DIAGRAMS ARE NOT GUARANTEED TO BE COMPLETE OR ACCURATE OR TO REFLECT THE FINAL INSTALLATION REQUIREMENTS OR COMPLETE EXISTING CONDITIONS. FIELD VERIFY ALL EXISTING CONDITIONS INCLUDING CEILING CONSTRUCTION, WALL CONSTRUCTION, ARCHITECTURAL CONDITIONS, ETC. AND ADJUST DETAILS AND DIAGRAMS ACCORDINGLY. PROVIDE ALL ADDITIONAL OR MODIFY EXISTING AS REQUIRED. RACEWAYS, WIRING, DEVICES, BOXES, CONNECTIONS, ETC. AND INCLUDE ALL COSTS FOR SAME. INCLUDE ALL PROGRAMMING, DIP SWITCH SETTINGS, ETC. AS REQUIRED FOR THE INTENDED SECURITY OPERATION AND INCLUDE ALL COSTS FOR SAME. BIDDER SHALL BE RESPONSIBLE FOR ANY ADDITION ENGINEERING OR DESIGN REQUIRED, AND SHALL INCLUDE ALL COSTS FOR SAME AS REQUIRED FOR COMPLETE AND OPERATING SYSTEMS IN ACCORDANCE WITH THE DESIGN INTENT. IN BIDDING THIS PROJECT, BIDDER ACKNOWLEDGES THAT NO ADDITIONAL COSTS WILL BE APPROVED DURING CONSTRUCTION UNLESS A CHANGE IN SCOPE IS REQUESTED BY THE DISTRICT.
19. PROVIDE COMPLETE SYSTEM AS BUILT DRAWINGS REFLECTING THE SYSTEM INSTALLATION.

CARD ACCESS/VNS SYSTEM RACEWAYS AND WIRING NOTES:

1. REFER TO POWER AND SYSTEM GENERAL NOTES FOR ADDITIONAL REQUIREMENTS.
2. REFER TO SPECIFICATIONS FOR COMPLETE REQUIREMENTS.
3. CONDUITS, BOXES, RACEWAYS, ETC. SHALL BE SUBJECT TO THE REQUIREMENTS OF THE SPECIFICATIONS.
4. WIRING, CONNECTIONS AND REVISIONS FOR ALL DOOR HARDWARE COMPONENTS AND DEVICES SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, WIRING DIAGRAMS AND INSTALLATION INSTRUCTIONS AND THE EQUIPMENT SHOP DRAWINGS.
5. ONE VRINX DOOR MODULE ONBOARD RELAY SHALL SERVE A MAXIMUM OF 0.7 AMPS. RELAYS ARE RATED 1 AMP AT 30 VDC. PROVIDE ADDITIONAL RELAY WHERE REQUIRED TO SERVE MORE THAN 0.7 AMPS.
6. ALL CARD ACCESS AND/OR VNS SYSTEM REVISIONS SHALL BE TESTED FOR PROPER OPERATION.
7. ALL WIRING SERVING THE CARD ACCESS SYSTEM SHALL BE PLENUM RATED.
8. THE COLOR CODING OF ALL WIRING SERVING THE CARD ACCESS SYSTEM SHALL BE THE SAME THROUGHOUT AND SHALL MATCH EXISTING.
9. ALL CONDUIT SERVING THE CARD ACCESS SYSTEM SHALL BE CONCEALED WITHIN BUILDING CONSTRUCTION. UTILIZE A FINISHED SURFACE RACEWAY SUCH AS WIREMOLD WHERE CONCEALING CONDUIT IS NOT FEASIBLE AS A RESULT OF EXISTING MASONRY CONSTRUCTION. IN EXISTING DRYWALL CONSTRUCTION, CONCEAL THE CONDUIT.
10. ALL CARD ACCESS SYSTEM LOW VOLTAGE WIRING SHALL BE INSTALLED IN CONDUIT OR A FINISHED SURFACE RACEWAY EXCEPT AS FOLLOWS: WHERE INSTALLED ABOVE AN ACCESSIBLE LAY-IN CEILING, WHERE INSTALLED IN A DOOR OR WINDOW FRAME MULLION.
11. LOW VOLTAGE WIRING INSTALLED ABOVE A LAY-IN ACCESSIBLE CEILING AND NOT IN CONDUIT, SHALL BE SUPPORTED ON J-HOOKS INSTALLED AT MAXIMUM 4 FOOT ON CENTERS. EXISTING J-HOOKS MAYBE USED FOR NEW WIRING.
12. WHEN TRANSITIONING FROM CONDUIT TO NO CONDUIT, UTILIZE A BUSHING ON THE END OF THE CONDUIT.
13. ALL JUNCTION BOXES PROVIDED TO SERVE A READER, DOOR OPERATOR, PUSHBUTTON, ETC., SHALL BE APPROVED BY THE MANUFACTURER TO SERVE THAT DEVICE AND FOR THE INTENDED PURPOSE. SURFACE BOXES SHALL BE FINISHED, SMOOTH EDGED AND WITHOUT SHARP EDGES. BOX FINISH SHALL MATCH THE CONNECTED RACEWAY.
14. INCLUDE ALL CONDUIT SLEEVES THROUGH WALLS AS REQUIRED FOR THE ROUTING OF LOW VOLTAGE CABLING. SLEEVES INSTALLED IN EXISTING WALLS SHALL UTILIZE A NEAT HOLE MADE WITH A CORING MACHINE OR HOLE SAW. CORING IN MASONRY SURFACES SHALL BE CONTINUOUS FROM ONE WALL SURFACE TO THE ADJOINING WALL SURFACE WITHOUT SPALLING. NO CONDUIT LESS THAN 1/2" SHALL BE USED FOR SLEEVES.
15. FIRE PROOF INSIDE AND OUT ALL CONDUIT SLEEVES.
16. LOW VOLTAGE CABLING SHALL BE INSTALLED AS REQUIRED FOR CONFORMANCE WITH THE CABLES RECOMMENDATIONS OF THE CABLE MANUFACTURER. OBTAIN SAME FROM THE MANUFACTURER.
17. LOW VOLTAGE CABLING SHALL BE INSTALLED AS FOLLOWS:
 - A. NOT INSTALLED WITHIN 18 INCHES OF LIGHT FIXTURE BALLASTS OR WITHIN 36 INCHES OF MOTORS OR TRANSFORMERS.
 - B. IN ACCORDANCE WITH MAXIMUM BENDING RADIUS AS RECOMMENDED BY THE MANUFACTURER.
 - C. INSTALLED PERPENDICULAR TO POWER CONDUIT RUNS UPON THEIR INTERSECTION WHEREVER POSSIBLE.



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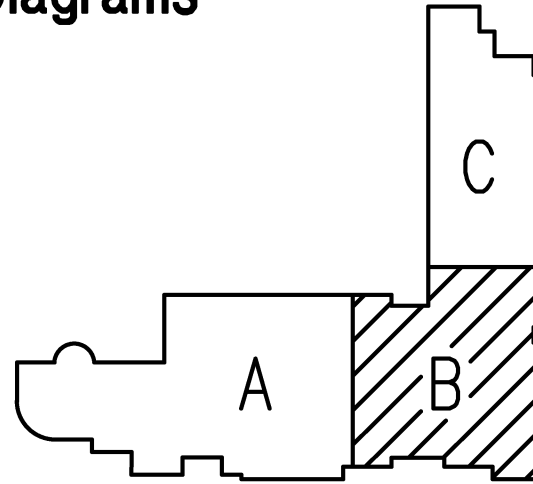
PROJECT TITLE

Beverly Elementary School Remodeling

Birmingham Public Schools Bloomfield Hills, Michigan

DRAWING TITLE

Miscellaneous Details and Diagrams



KEY PLAN

NO SCALE

ISSUE DATES

02-15-2016

B.P.No. 1 - B05

DATE

ISSUED FOR:

DRAWN

CHECKED

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PROJECT NO.

15097

DRAWING NO.

E3.1

DIFFUSER-REGISTER-GRILLE SCHEDULE											
MARK	FLOW RANGE (CFM)	DIFFUSER FACE SIZE (IN)	DIFFUSER NECK SIZE (IN)	FLOW PATTERN	MOUNTING TYPE	COLOR	MATERIAL	ACCESSORY	MANUFACTURER	MODEL NUMBER	NOTES
RG-1	SEE PLANS	SEE PLANS	SEE PLANS	NA	LAY-IN	WHITE	STEEL	NONE	PRICE	PDDR	
RG-2	SEE PLANS	D * 1-3/4	SEE PLANS	NA	SURFACE	WHITE	STEEL	NONE	PRICE	535D	

1. REFER TO REFLECTED CEILING PLANS FOR EXACT LOCATION. PROVIDE ALL FRAMES AND ACCESSORIES AS REQUIRED FOR PROPER INSTALLATION.

