



Richard Y. Johnson & Son, Inc.

General Contractors & Construction Managers

Serving Delaware Since 1946

www.ryjson.com

18404 Johnson Rd
PO Box 105
Lincoln, DE 19960
Phone 302-422-3732
Fax 302-422-4696

**Capital School District
Central Middle School
Interior Renovations
211 Delaware Ave. Dover Delaware 19901
Bid Pac E– Contracts 1 thru 10
October 7, 2024**

Addendum No. 1

Attention all Prospective Bidders:

The following clarifications, changes and /or additions shall by this reference be incorporated into the contract documents as though dully set forth therein.

Addendum No. 1 consists of:
RYJ Written directive (2 pages)
Pre-Bid Meeting Agenda (2 pages)
BMG Written directive (2 pages)
A Drawings (3 Drawings)
E Drawings (4 Drawings)

***Note: Pre-Bid Sign In Sheets will be available in Addendum 2**

Non – Technical Specifications

NOTE: All Prime Contractors are responsible for bidding from a full set of bidding documents.
This project is a State wage rated project.
No administrative items shall be delivered to the job site.
All correspondence with Architect, Engineer, Owner, Etc. must go through this office.

Application for Payment

All bills are due the 25th of the month. Bills must be on for AIA G702/CMA. Billing will not be processed early, late bills will be rejected.

A total of five copies of each bill and corresponding waiver (one notarized original and 4 copies) are required.
Faxed copies will not be accepted.

General Conditions

Please refer to Section 9.3.2; any stored material (including on-site storage) being billed during a pay period must be insured and a certificate of stored material be included with your application for payment. Your payment will not be processed and your bill will be rejected for that period.

Stored materials must stay in the stored materials column, and must be insured, until the material has been incorporated into the building.

Shop Drawings, Product Data and Samples

Submittals are to be submitted via email for review and approval, if certain items are deemed not emailable then ten (10) copies of all submittals are required. Inadequate amounts will be rejected.

End of Addendum No. 1



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PRE-BID MEETING

October 3, 2024

2:00 pm

Central Middle School Interior Renovations
Project No. 2021101.00

Bid Pac E Agenda

1. Attendees at Pre-Bid Meeting
Owner-Capital School District – James Baustert
Construction Manager – Richard Y. Johnson & Son, Inc.
Architect – Becker Morgan Group
2. Review projects' description and time frame
- You will be bidding Bid Pac D -
 - E-1 Site Work
 - E-2 Concrete & Masonry Work
 - E-3 Carpentry & General Work
 - E-4 Aluminum Storefront/Windows/Glass & Glazing
 - E-5 Drywall/Metal Stud/Acoustical Work
 - E-6 Floor Covering Work
 - E-7 Caulking/Painting
 - E-8 Mechanical
 - E-9 Sprinkler System
 - E-10 Electrical

- Project involves the interior renovations of the existing Central Middle School.
3. Review Bid date and location
- October 24, 2024 @ 2:00pm
- Central Middle School located at 211 Delaware Ave. Dover Delaware 19901 in the auditorium.
All **mailed bids** must be received by **12:00pm** the day of the bid opening, October 24, 2024 at the Capital School District Office located at 198 Commerce Way, Dover Delaware 19904.
Bidder bears the risk of late delivery.
- Bids will be publicly opened and read aloud at the Central Middle School Auditorium,
4. Review the bidding procedures and bonding requirements
- You are bidding a full set of documents.
- You must use bid form provided in bid documents and/or as revised in Addendums
- Review scope of work, section 011100 Summary of Work
- No exclusions from your scope of work or bid will be rejected!!
- 10% Bid Bond is required.
- Public bid opening.
- This is a **NON-MANDATORY** pre-bid meeting.
5. Review the Project

- Owner to provide building permits; contractor provides all other permits, licenses and inspection fees
 - Seven (7) Alternates
 - Four (4) Allowances
 - Contract 2 Concrete & Masonry Work \$25,000 – Unforeseen Conditions
 - Contract 3 Carpentry & General Work \$100,000 – Unforeseen Conditions
 - Contract 8 Mechanical \$25,000 – Unforeseen Conditions
 - Contract 10 Electrical \$25,000 – Unforeseen Conditions
 - Zero (0) Unit Prices
6. Receive Bidding questions – R. F. I. to be forwarded to Construction Manager. Email address is jdixon@ryjson.com.
- RFI's to be in written form only, with plan number or specification number noted with question.
 - No RFI's shall be accepted after 12 noon on Thursday, October 17th, 2024.
 - All substitutions shall be submitted no later than 12 noon on Thursday, October 17th, 2024.
- State prevailing wage rates apply.
7. Bidding documents
- www.ryjson.com under plan room
 - Additional contract Documents and partial sets can be purchased at RCI Printing & Graphics, 298 Churchmans Road, New Castle Delaware, (302) 328-5019
 - Documents Shown on My Market Place State of Delaware website are **NOT** for Bidding.
- For Bidding, you must use the documents from the RYJ website.**
8. Drug Testing/Craft Training Requirements
- All Prime Contractors are to include a signed affidavit that is included in the project documents.
9. Review Subcontractor List Requirements
10. **Site Visit: View after Pre-Bid Meeting**
11. Receive questions
12. Summation and Conclusion



ARCHITECTURE
ENGINEERING

ADDENDUM 1

OWNER
ARCHITECT
CONSULTANTS
CONTRACTOR
FIELD
OTHER

X Capital School District
X Becker Morgan Group, Inc.
X Pilottown Engineering, CMTA Inc.
X Richard Y. Johnson and Son, Inc.
☐
☐

DATE: 10/07/2024

PROJECT: Central Middle to Elementary School Interior Renovation

PROJECT NO: 2021101.00

You are hereby directed to execute promptly this Field Memo that interprets the Contract Documents or orders minor changes in the Work without change in Contract Sum or Contract Time.

If you consider that a change in Contract Sum or Contract Time is required, please submit your itemized proposal to the Architect immediately and before proceeding with this Work. If your proposal is found to be satisfactory and in proper order, this Field Memo will in that event be superseded by a Change Order.

Description:

1. General Addendum Notes:

- a. All countertops are to be solid surface.
- b. All casework is plastic laminate casework with a maximum of 3 total plastic laminate types.

2. A101D-E – FIRST FLOOR PLAN – AREA D/E

- a. Detail 1:
 - i. **ADD** exam curtains (3) in nurse's suite.

3. A106-E - FIRST FLOOR FINISH PLAN - AREAS B, D/E (BASE BID)

- a. General Symbol Legend:
 - i. **DELETE** graphic pattern for RUB-1.
- b. Material Finish Legend:
 - i. **ADD** SS-1 information.
 - ii. **REVISE** SVT-1 and SVT-2 description to "Sheet Vinyl Tile".

4. A602-E - INTERIOR FLOORING TRANSITION DETAILS

- a. **DELETE** details S6 and S9.
- b. Details S8 and S14:
 - i. **REVISE** drawing title and drawing note from "Athletic" to "Sheet".

5. ED-101B – FIRST FLOOR ELECTRICAL DEMOLITION PLAN – AREA B

- a. **ADD** demolished lights in corridor B151.

6. E-201B – FIRST FLOOR ELECTRICAL LIGHTING PLAN – AREA B

- a. **ADD** two (2) A6 light fixtures and one (1) A6(EM) light fixture in corridor B1.
- b. **ADD** occupancy sensor in corridor B1.
- c. **ADD** general note O.

7. E-201D/E – FIRST FLOOR ELECTRICAL LIGHTING PLAN – AREA D/E

- a. **REVISE** lights in grid in Office D112A.

8. E-501 – ELECTRICAL DETAILS

-
- a. **ADD** lighting fixtures A6 and A6(EM) to lighting fixture schedule.

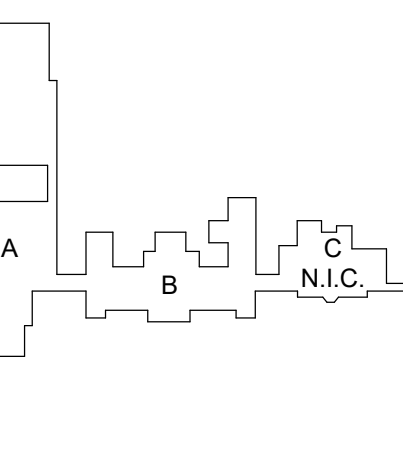
Attachments:

Becker Morgan Group, Inc. drawings: A101D-E, A106-E, and A602-E dated 09.13.2024

CMTA, Inc. Drawings: ED-101B, E-201B, E-201D/E, and E-501 dated 09.13.2024

ARCHITECT: Becker Morgan Group, Inc.

BY: Brad Hastings, AIA

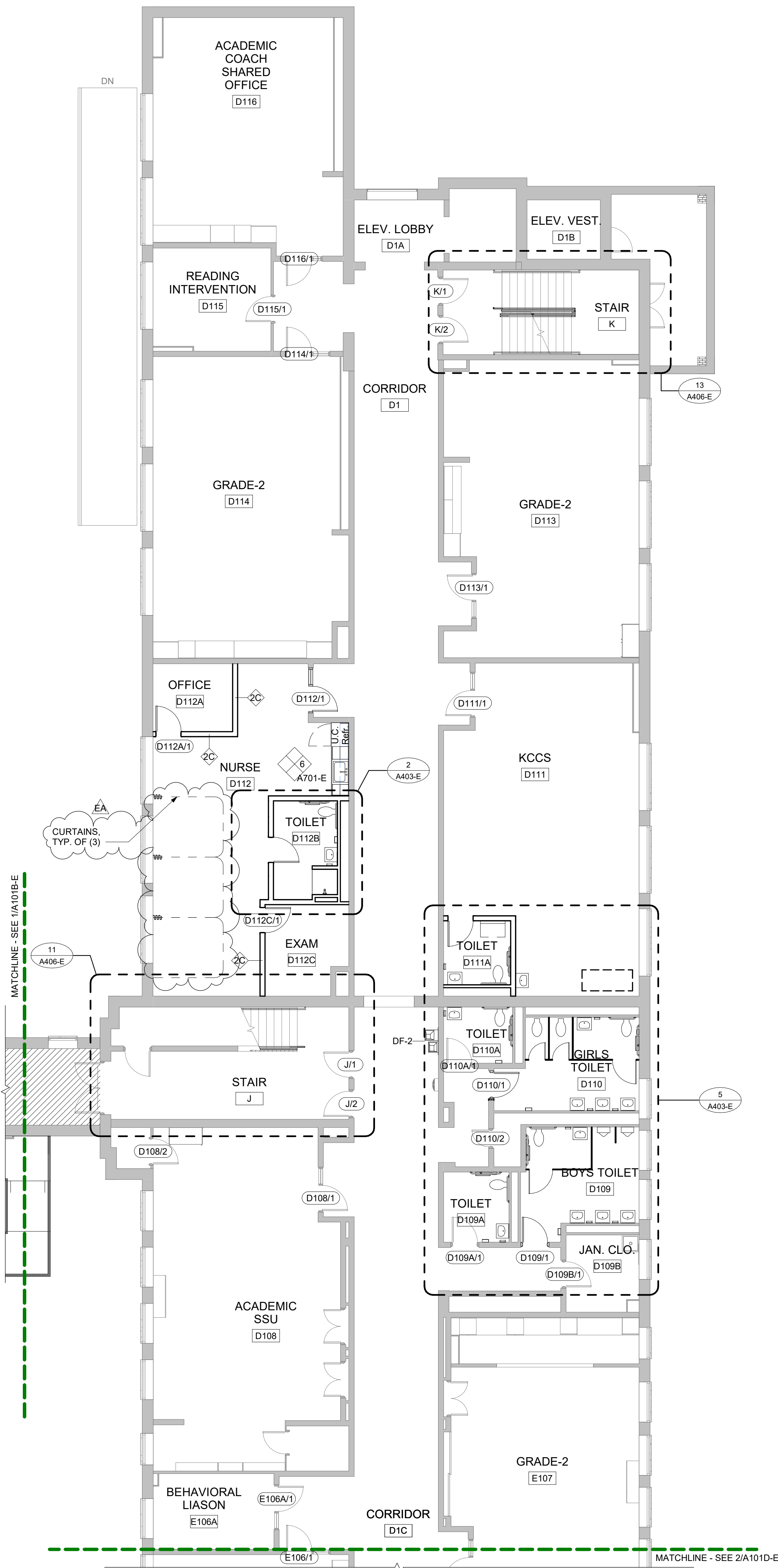


EA	10.07.2024	ADDENDUM 1
Mark	Date	Description

GENERAL NOTES

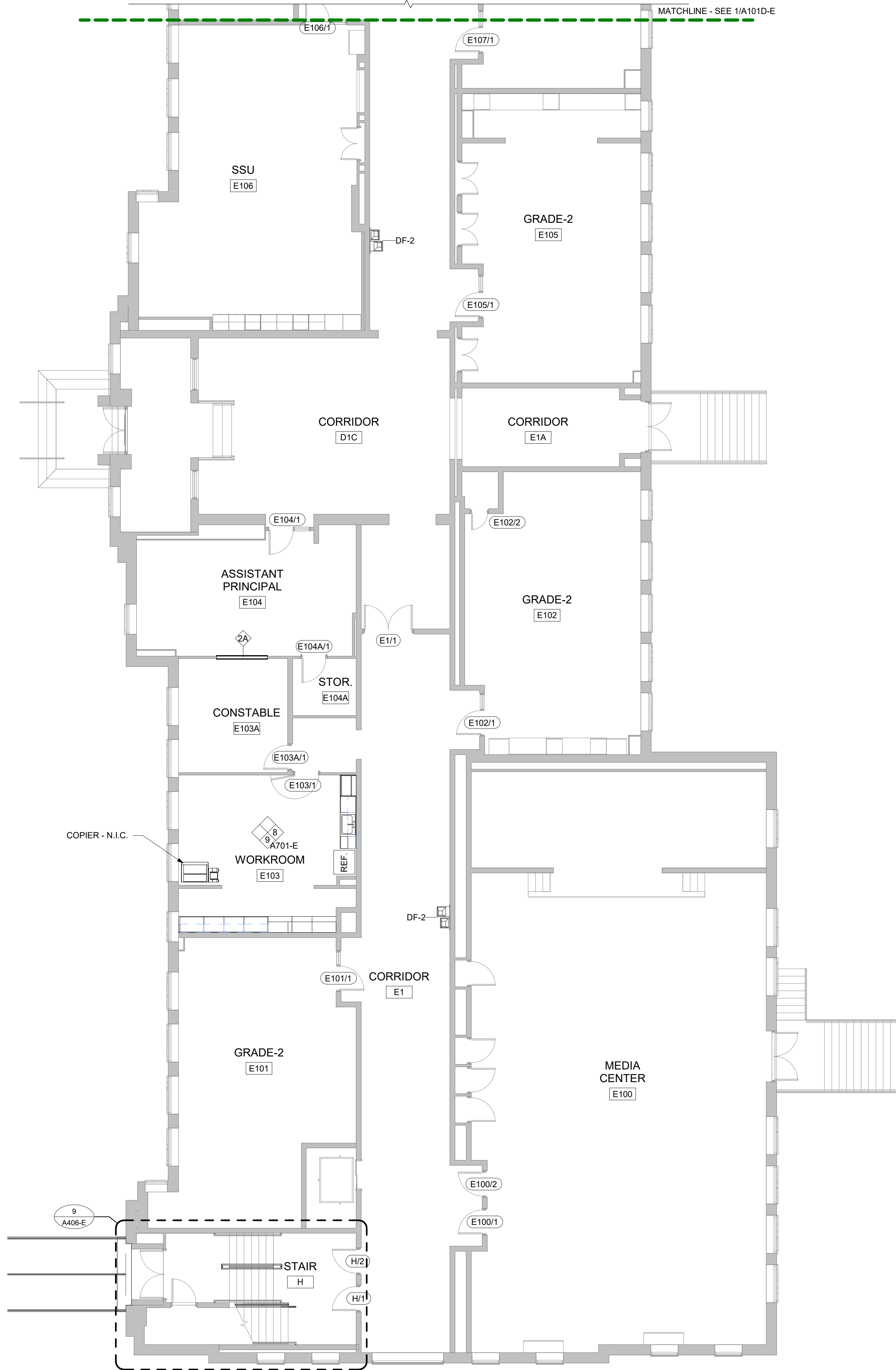
- DIMENSIONS ARE TO EXTERIOR FACE OF CONCRETE, MASONRY, OR METAL STUD UNLESS OTHERWISE NOTED.
- REFER TO A000-SERIES DRAWINGS FOR SLAB AND OTHER CONSTRUCTION TYPES AND TYPICAL DETAILS.
- SEE A400-SERIES FOR ENLARGED PLANS AND SECTIONS.
- SEE A601-E FOR DOOR SCHEDULE, DOOR TYPES AND HOLLOW METAL, CURTAINWALL, AND STOREFRONT TYPES.
- COORDINATE REQUIREMENTS OF WORK WITH ALL OTHER TRADES.

■ N.I.C. (NOT IN CONTRACT)



1 FIRST FLOOR PLAN - AREA D/E
NORTH

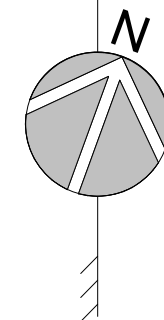
SCALE: 1/8" = 1'-0"



2 FIRST FLOOR PLAN - AREA D/E
SOUTH

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

PLAN
NORTH



1. REFER TO A106-E FOR MATERIAL FINISH LEGEND.
2. REVIEW ALL FIELD CONDITIONS AND PLANNED WORK. RESOLVE ALL DISCREPANCIES IN A MANNER APPROVED BY THE ARCHITECT THAT COULD AFFECT THE FINISHES OR TRANSITIONS PRIOR TO PROCEEDING WITH WORK AFFECTED BY DISCREPANCIES.
3. ALL FINISHES SHALL BE TYPE I CLASS A FLAME AND SMOKE SPREAD. REFER TO FINISH AND MATERIAL SCHEDULES, SPECIFICATIONS, AND ELEVATIONS FOR SELECTED CLING PLANS AND DETAILS FOR ADDITIONAL INFORMATION REGARDING FINISHES, PATTERNS, ORIENTATIONS AND TRANSITIONS.
5. PREPARE SURFACES PER FINISH MANUFACTURER'S INSTRUCTIONS PRIOR TO APPLICATIONS OF FINISHES. CONFIRM FINISHES TO BE USED FOR ALL SURFACES. TRIM AND FREE OF IRREGULARITIES.
6. PREPARE SLAB TO RECEIVE NEW FINISHES, INCLUDING STRUCTURALLY BONDED HYDRAULIC CEMENT UNDERLAYS AND FLASH PATCHING REQUIRED TO LEVEL AND SMOOTH FLOOR TO 1/8" IN 20'-0" NON-CUMULATIVE. UNLESS OTHERWISE INDICATED BY THE ARCHITECT, ALL FINISHES SHALL BE APPLIED TO A CLEAN, DRY, AND NEUTRAL SURFACE. PREPARE SURFACES TO EXHIBIT NEUTRALITY RELATIVE TO ACIDITY AND ALKALINITY. REMOVE GREASE, DIRT CURING COMPOUNDS AND OTHER MATERIALS THAT WILL IMPAIR THE PERFORMANCE AND/OR ADHESION OF THE SCHEDULED FLOORING.
7. PREPARE SURFACES TO BE FINISHED AT CENTERLINE OF DOOR OR WINDOW NOTATIONS.
8. PROVIDE COMPLETE EXPOSED REVEALS IN ALL REVEAL LOCATIONS. FINISH TO MATCH ADJACENT SURFACE FINISH, UNLESS NOTED OTHERWISE.
9. PAINT/ FINISH EXPOSED SURFACES UNLESS OTHERWISE NOTED. PAINT SURFACES BEHIND REMOVABLE EQUIPMENT/FLOORING. PAINT BEHIND NON-REMOVABLE ITEMS WITH PRIME COAT ONLY.
10. LAY RESILIENT FLOORING DIRECTIONAL PATTERNS OR GRAINS AS NOTED, OR IF NOT NOTED AS DIRECTED BY THE ARCHITECT.
11. GUNITE, PLATES, DIFFUSERS AND OTHER ITEMS OCCURRING IN WALLS OR CEILING SHALL BE FACTORY FINISHED IN PAINT OF COLOR AND SHEEN TO MATCH SURFACES ON WHICH THEY OCCUR UNLESS OTHERWISE NOTED.
12. EXIST ALUMINUM DOOR TO PAINTING.
13. SEALANT TO BE APPLIED BETWEEN BASE OF ALL DOOR FRAMES AND TILE FLOORING. SEALANT TO MATCH COLOR OF DOOR FRAMES.
14. EXIST FLOORING TO ALL TOP JOCKS, KNEE SPACES AND EXPOSED AREAS UNDER ANY EXISTING CASEWORK. FLOORING TO BE SCHEDULED SHALL BE INSTALLED UNDER ALL NEW CASEWORK.
15. MOLD- AND MOISTURE-RESISTANT GYPSUM BOARD SHALL BE USED AT ALL KITCHEN AREAS, TOILET ROOMS, AND CUSTODIAN SERVICE CLOSETS SCHEDULED TO HAVE GYPSUM BOARD FINISHES. THIS INCLUDES UNDER ALL CASEWORK AND FINISHES.
16. PLAN WALL TYPES TAKE PRECEDENCE OVER SCHEDULED WALL FINISH. PROVIDE APPROPRIATE WALL FINISH TO CORRESPOND TO WALL TYPES.
17. PT-4 OR HP-2 IDENTICAL COLOR AND SHEEN ONLY. REFER TO INTERIOR PAINTING SPECIFICATION TO COORDINATE PAINT PRODUCT WITH SUBSTRATE.
18. PROVIDE SEALANT/CAULK AT INTERSECTIONS OF DISSIMILAR MATERIALS AND AS RECOMMENDED BY MANUFACTURERS' GUIDELINES.
19. CATERFIA TO RECEIVE NEW WALL AND DOOR FRAME PAINT ONLY. (NOT SHOWN ON PLANS.)

FINISH TAG: SEE FINISH LEGEND

———— ACCENT WALL LOCATION

——— TRANSITION STRIP BETWEEN MATERIALS ——— SEE A606

FLOOR FINISH PATTERNS (BASE BID):

CONC-1 CPT-1 CPT-2 EXG RES-1 RES-2

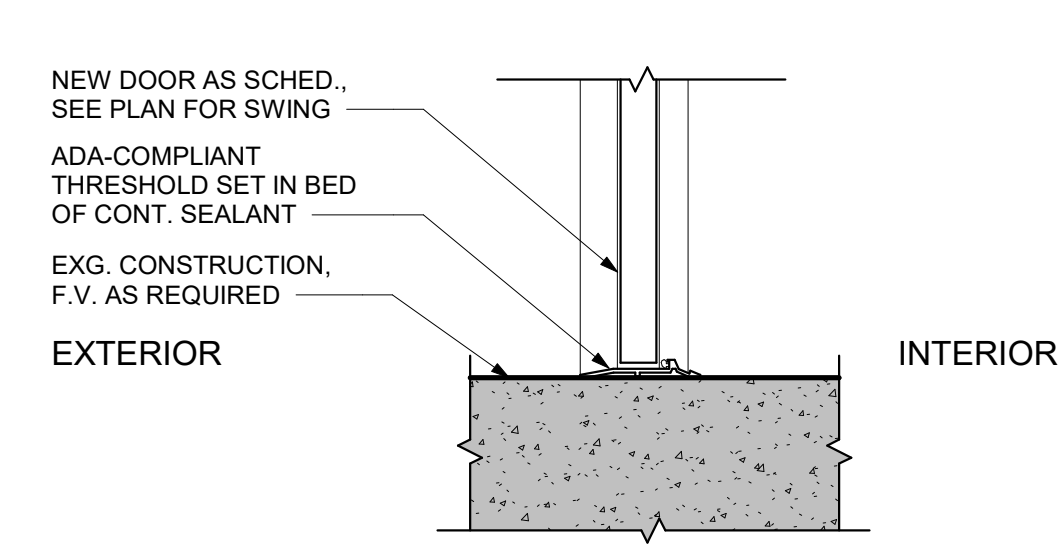
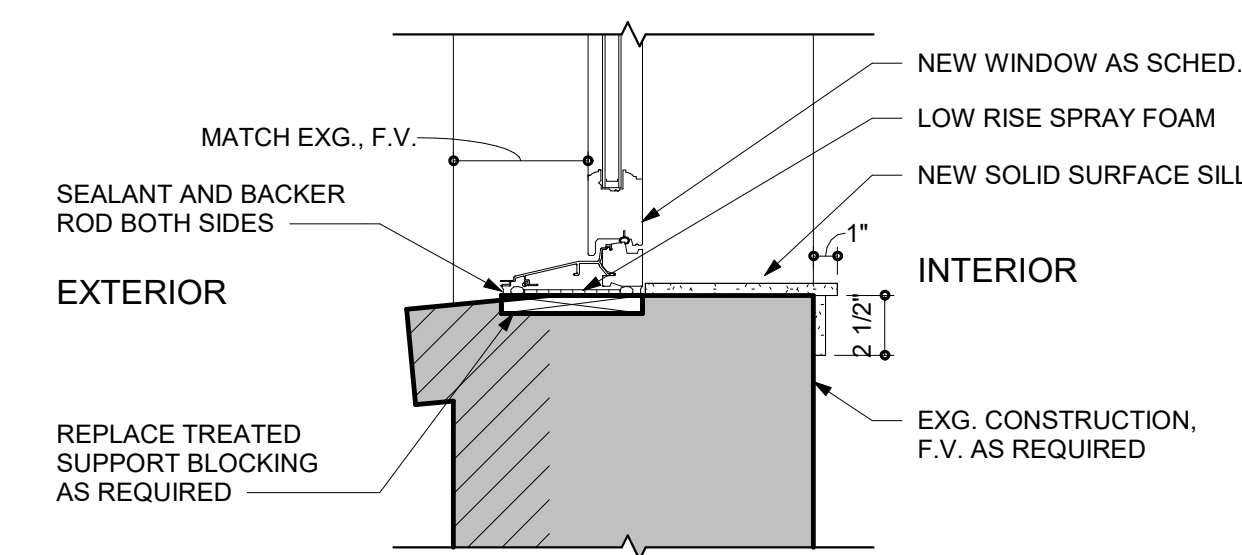
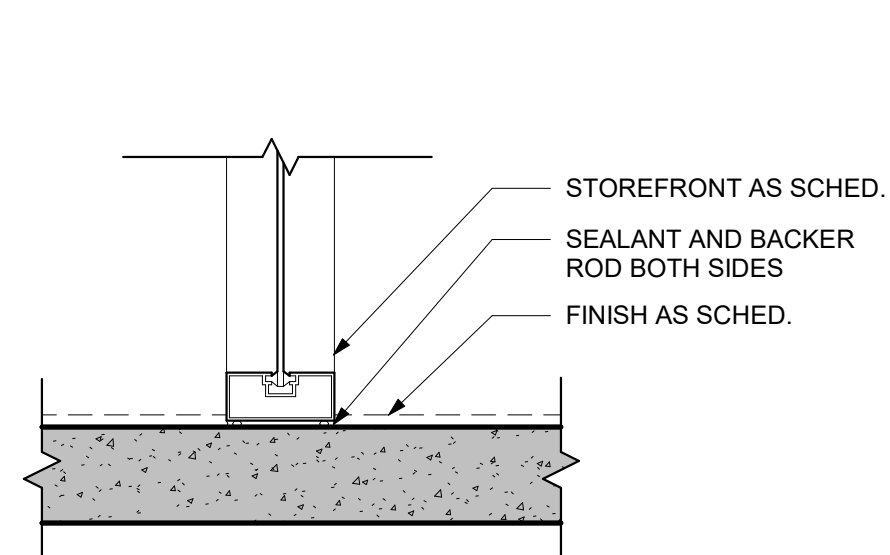
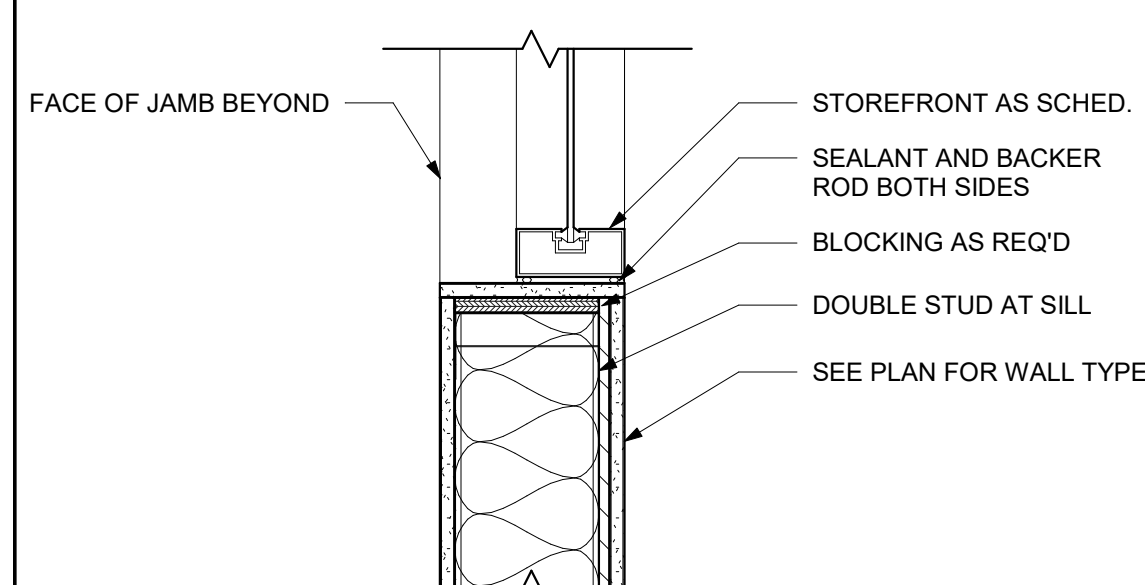
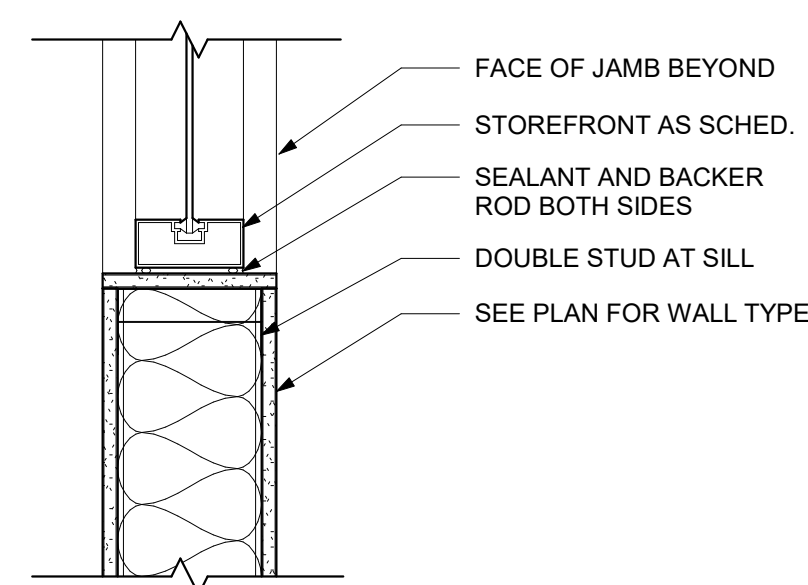
RSF-1 VCT - MATCH EXG PATCH & REPAIR EXG

NOTE: HATCH PATTERNS REPRESENT MATERIAL ONLY, NOT INSTALLATION PATTERN.

MARK	DESCRIPTION	MANUFACTURER	PRODUCT	COLOR / FINISH	SIZE	COMMENTS	LOCATION
BASE BID FLOOR							
-	NO FINISH / NOT APPLICABLE						
CONC-1	CONCRETE WITH SEALER/HARDENER						
CPT-1	CARPET TILE	TARKETT	OFFSET 11338	INK FILM 30807	18"x36"	TYPICAL	
CPT-2	CARPET TILE	TARKETT	SUEDE TONES 11531	GHOST WRITER 57204	18"x36"	MEDIA CENTER	
RES-1	RESINOUS FLOORING	STONHARD	STONEBLEND FE	CRUSHED SLATE		TOILET ROOMS	
RES-2	RESINOUS FLOORING	STONHARD	STONEBLEND HDF	CRUSHED SLATE		NURSE SUITE	
RSP-1	RUBBER SHEET FLOORING	ECOSURFACES	NADA RX	BLUE ICE 3310	57" ROLL	SENSORY ROOM & KCCS	
VCT	VINYL COMPOSITION TILE	MATCH EXISTING	MATCH EXISTING	MATCH EXISTING		MATCH EXISTING PATTERN AND COLORS	WHERE INDICATED ON DRAWINGS
ALTERNATE FLOOR							
RFT-1	RUBBER FLOORING TILE	NORA RUBBER FLOORING	NORAPLAN ENVIRONCARE	FROM FULL MFRS RANGE		INSTALLED OVER EXISTING VCT	
RFT-2	RUBBER FLOORING TILE	NORA RUBBER FLOORING	NORAPLAN ENVIRONCARE	FROM FULL MFRS RANGE		INSTALLED OVER EXISTING VCT	
SVT-1	SHEET VINYL TILE	PATCRAFT	ADMIX	FROM FULL MFRS RANGE		INSTALLED OVER EXISTING VCT	
SVT-2	SHEET VINYL TILE	PATCRAFT	ADMIX	FROM FULL MFRS RANGE		INSTALLED OVER EXISTING VCT	
BASE BID BASE							
-	NO FINISH / NOT APPLICABLE						
RB-1	RESILIENT WALL BASE	TARKETT	BASEWORKS	NAVY BLUE 18	4"H	TYPICAL	
RES-1	RESINOUS FLOORING INTEGRAL COVE BASE	STONHARD	STONEBLEND FE	CRUSHED SLATE	6"H	TOILET ROOMS	
RES-2	RESINOUS FLOORING INTEGRAL COVE BASE	STONHARD	STONEBLEND HDF	CRUSHED SLATE	6"H	NURSE SUITE	
BASE BID WALL							
-	NO FINISH / NOT APPLICABLE						
EXG	EXISTING TO REMAIN						
GWB	GYPNUM WALLBOARD						
HP-1	HIGH PERFORMANCE COATING	SHERWIN WILLIAMS		SW7570 EGRET WHITE			
PT-1	FIELD PAINT	SHERWIN WILLIAMS	PROMAR 200 EGGSHELL	SW7570 EGRET WHITE		FIELD	
PT-2	ACCENT PAINT	SHERWIN WILLIAMS	PROMAR 200 EGGSHELL	SW6227 MEDITATIVE		ACCENT	NURSE ACCENT & SHARED TOILET ROOMS
PT-3	ACCENT PAINT	SHERWIN WILLIAMS	PROMAR 200 EGGSHELL	SW6519 HINTING BLUE / EGGSHELL		ACCENT	GRADES 1, 2 & 3
PT-4	ACCENT PAINT	SHERWIN WILLIAMS	PROMAR 200 EGGSHELL	SW7064 PASSIVE		ACCENT	GRADES 4 & 5
PT-5	DOOR FRAME PAINT	SHERWIN WILLIAMS	PROMAR 200 GLOSS	TBD		TYPICAL	THROUGHOUT, INCULCING N.I.C. AREAS
BASE BID CEILING							
-	NO FINISH / NOT APPLICABLE						
ACT-1	ACOUSTICAL TILE CEILING	ARMSTRONG	ULTIMA	WHITE	24"x24"	TYPICAL	
ACT-2	ACOUSTICAL TILE CEILING	ARMSTRONG	ULTIMA HIGH NRC	WHITE	24"x24"	SCRUBABLE	
ACT-3	ACOUSTICAL TILE CEILING	ARMSTRONG			24"x48"		
EXG	EXISTING TO REMAIN						
EXPO	EXPOSED STRUCTURE, FIRE PROTECTION, PLUMBING, MECHANICAL, ELECTRICAL, TECHNOLOGY, ETC.		SHERWIN WILLIAMS DRYFALL	SW7570 EGRET WHITE			
GWB	GYPNUM BOARD CEILING						
HP-3	HIGH PERFORMANCE COATING	SHERWIN WILLIAMS		SW7570 EGRET WHITE			
PT-6	CEILING PAINT	SHERWIN WILLIAMS	PROMAR 200 FLAT	SW7570 EGRET WHITE			
BASE BID							
MILLWORK, CASEWORK, DOORS, MISC. FINISHES							
PLAM-1	SOLID LAMINATE	WILSONART	HPL	MONTICELLO MAPLE 7925-38		CASEWORK	
SCVD	PLASTIC CORE WOOD DOOR W/ PREFINISH VENEER	MASONITE ARCHITECTURAL WILSONART	ASPIRO SERIES	WHITE OAK - CLEAR		PLAIN SLICED	
SS-1	SOLID SURFACING			GREY BELTA 90218CM		COUNTERTOPS	



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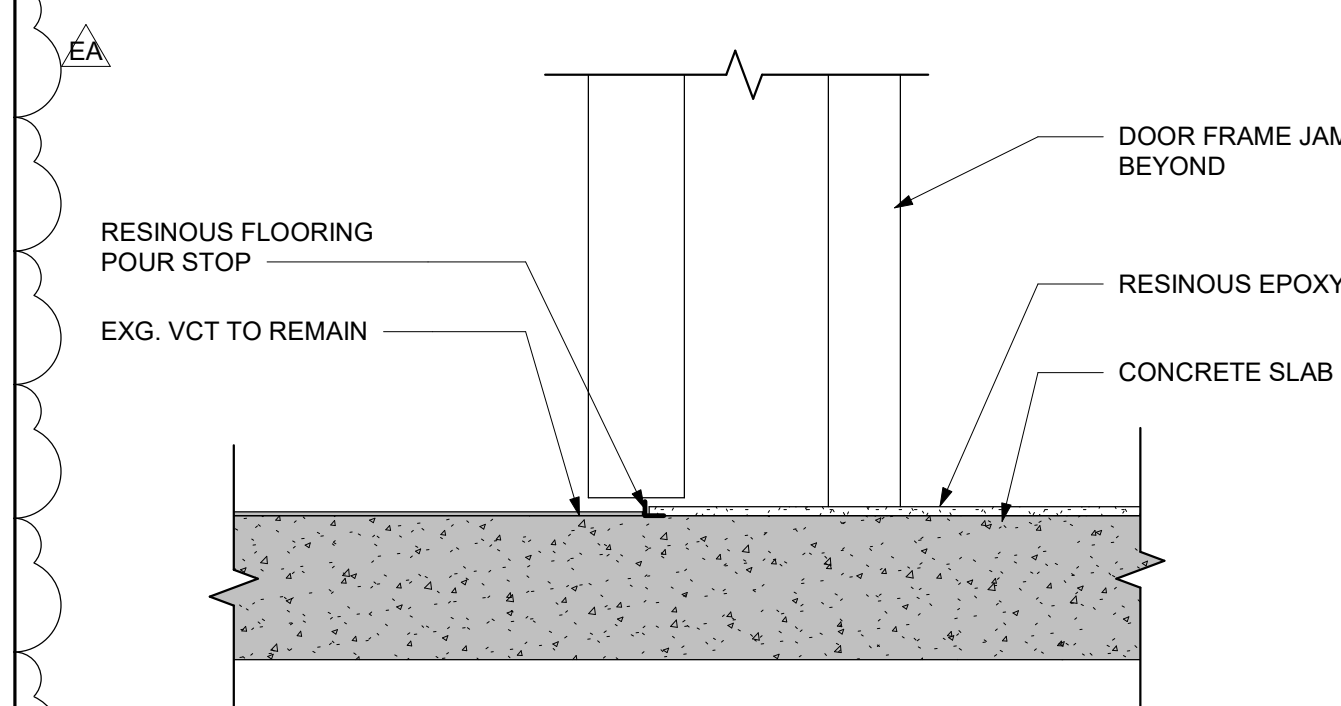
S1 TYPICAL STOREFRONT AT METAL STUD - SILL
DETAIL

S2 TYPICAL STOREFRONT AT BALLISTIC METAL
STUD - SILL DETAIL

S3 TYPICAL INTERIOR STOREFRONT - SILL DETAIL

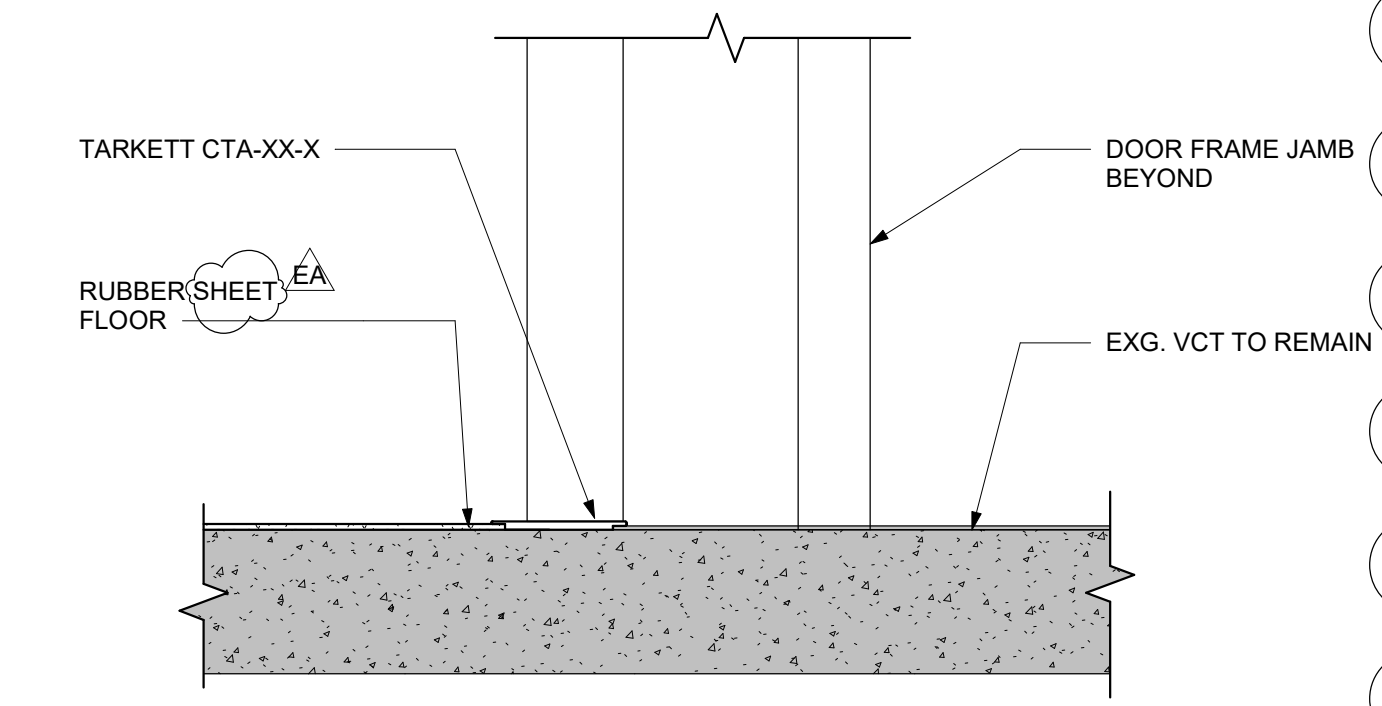
S4 EXTERIOR SILL DETAIL @ WINDOW

S5 EXTERIOR THRESHOLD DETAIL

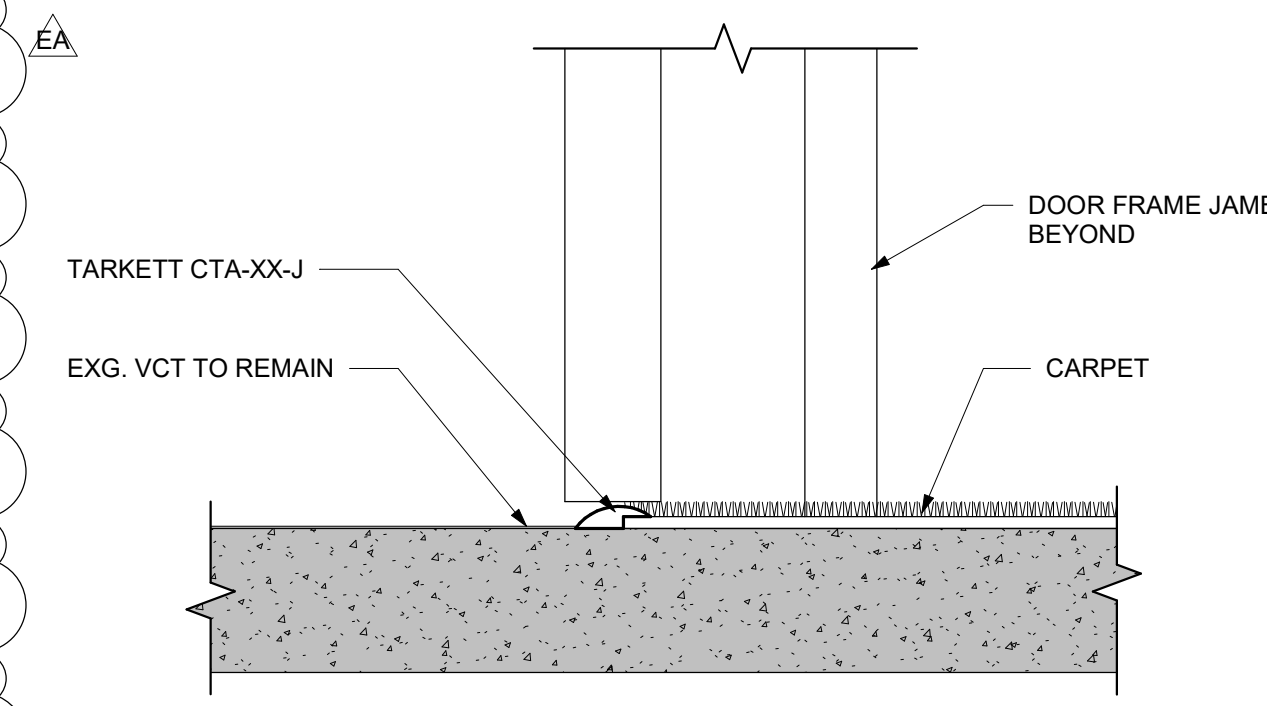


S7 FINISH TRANSITION - EXISTING VCT TO RESINOUS EPOXY

SCALE: 3" = 1'-0"

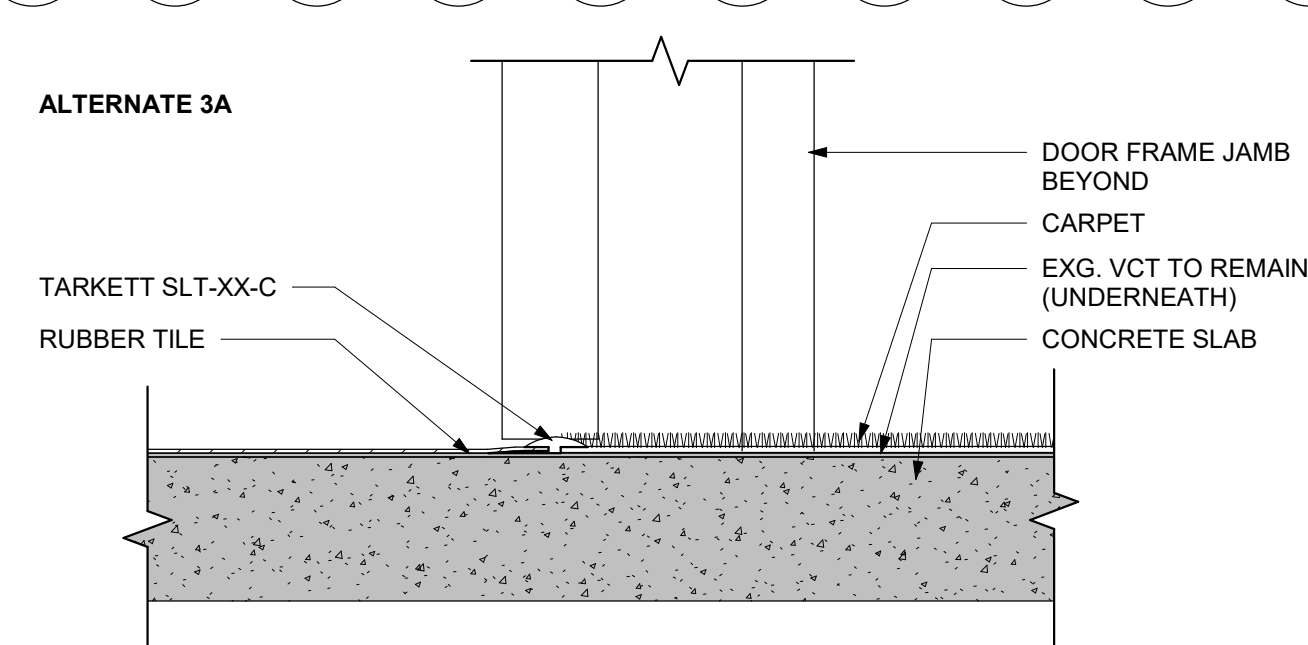


S8 FINISH TRANSITION - RUBBER SHEET FLOORING TO EXISTING VCT



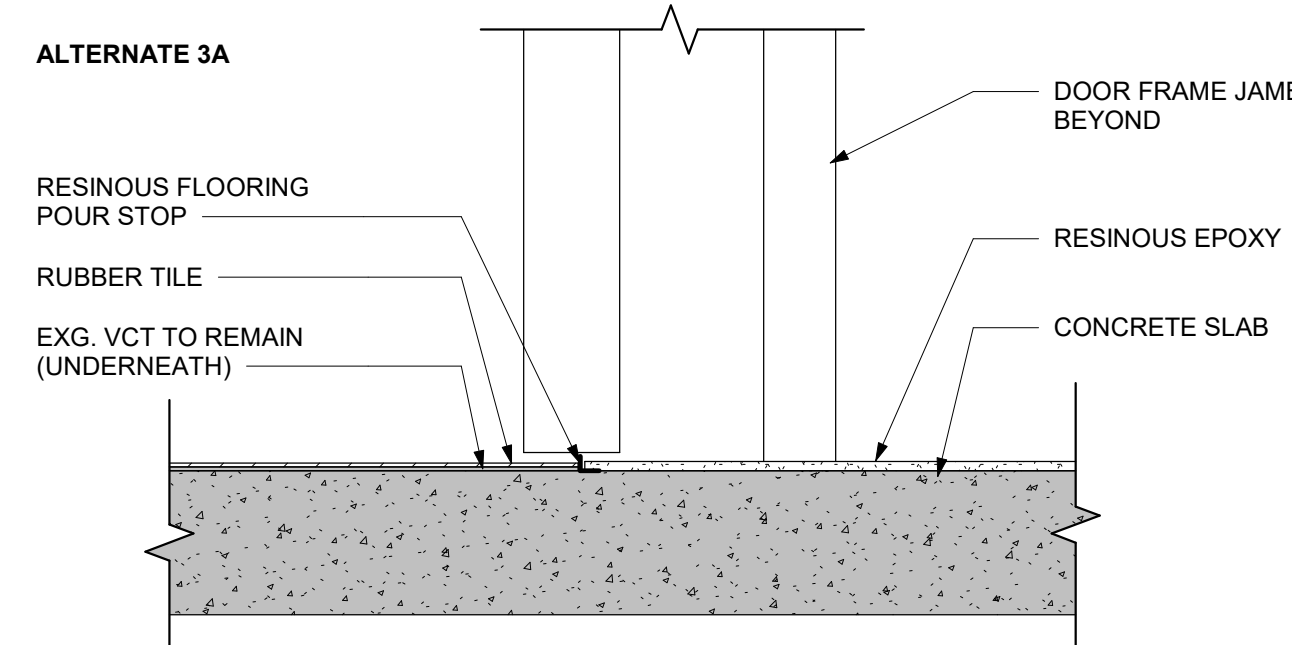
S10 FINISH TRANSITION - EXISTING VCT TO CARPET

SCALE: 3" = 1'-0"



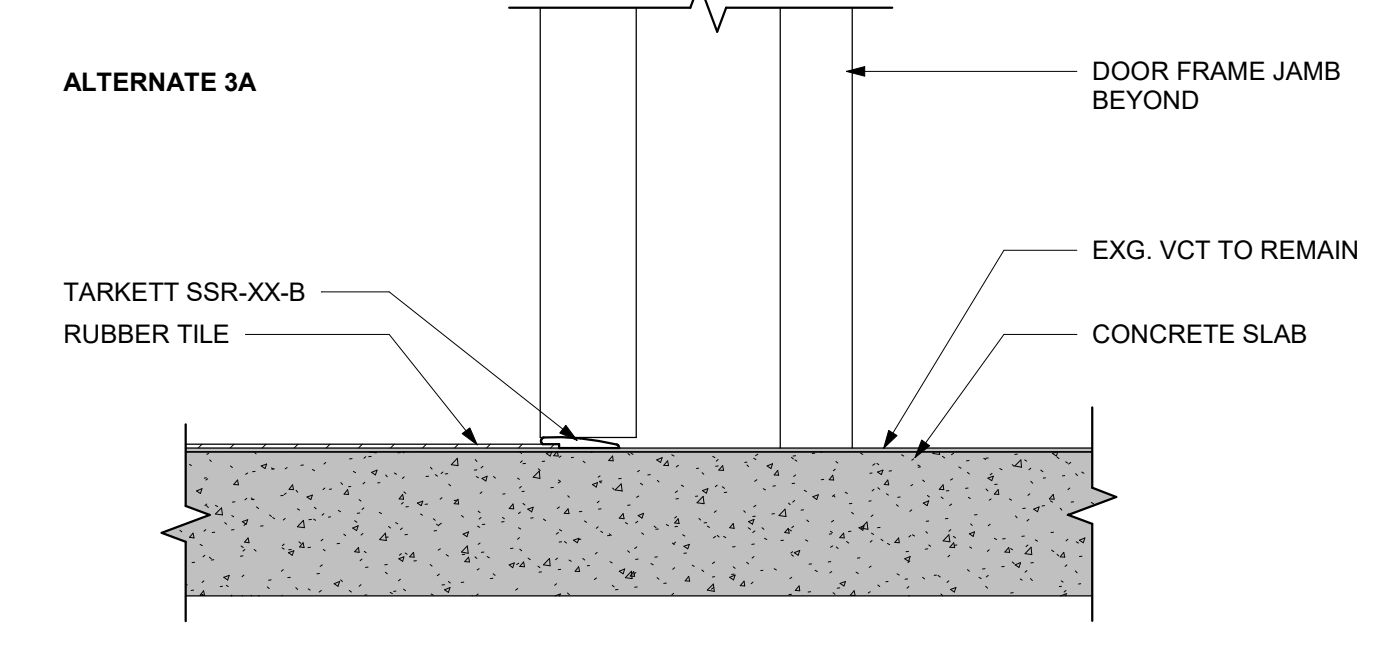
S11 FINISH TRANSITION - RUBBER TILE TO CARPET

SCALE: 3" = 1'-0"



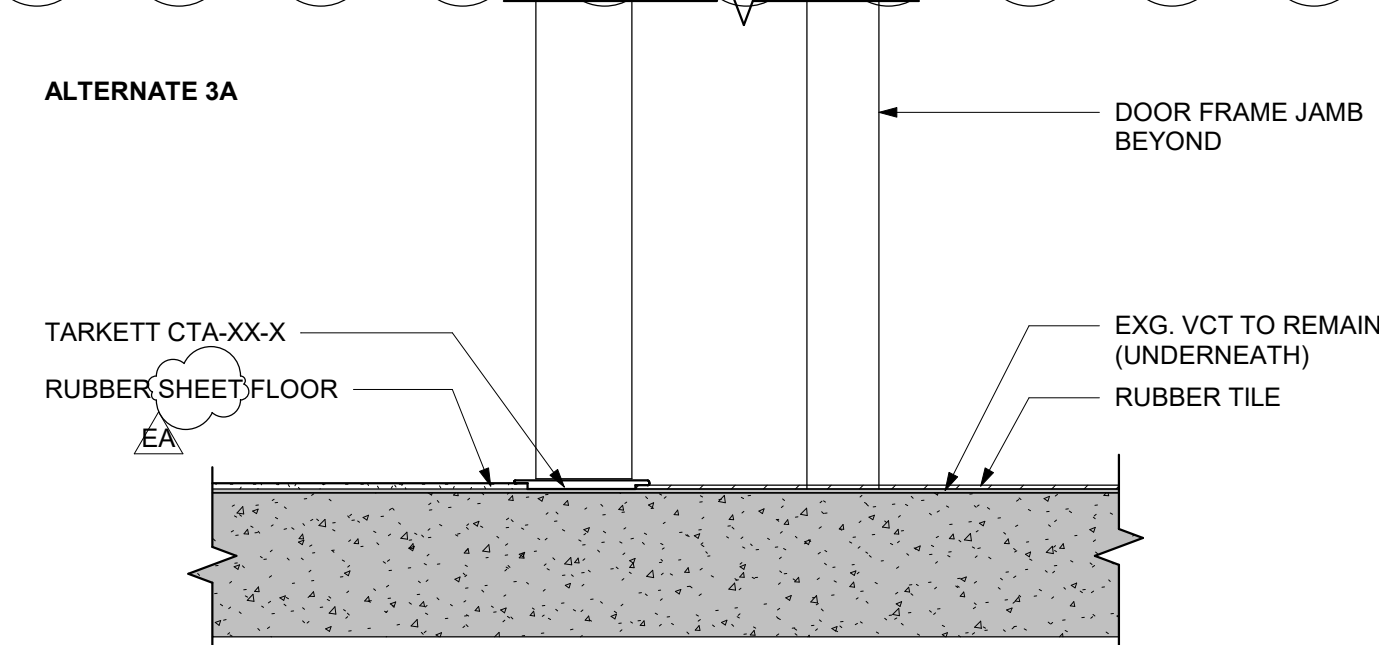
S12 FINISH TRANSITION - RUBBER TILE TO
RESINOUS EPOXY

SCALE: 3" = 1'-0"



S13 FINISH TRANSITION - RUBBER TILE TO EXISTING VCT

SCALE: 3" = 1'-0"



S14 FINISH TRANSITION - RUBBER SHEET
FLOORING TO RUBBER TILE

SCALE: 3" = 1'-0"

CENTRAL MIDDLE
TO
ELEMENTARY
SCHOOL
INTERIOR
RENOVATION

211 DELAWARE AVE
DOVER, DE 19901

ISSUED
FOR BIDDING

ISSUED: 09/13/2024

SHEET TITLE

INTERIOR FLOORING
TRANSITION DETAILS

ISSUE BLOCK		
EA	10/07/2024	ADDENDUM 1
Mark	Date	Description
PROJECT NO: 2021101.00		
DATE: 09.13.2024		
SCALE: As indicated		
DRAWN BY: MNS PROJ MGR: BAH		

A602-E

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CENTRAL
MIDDLE TO
ELEMENTARY
SCHOOL
INTERIOR
RENOVATION

211 DELAWARE AVE
DOVER, DE 19901

ISSUED
FOR BIDDING

ISSUED: 09/13/2024

FIRST FLOOR
ELECTRICAL
LIGHTING PLAN -
AREA D/E

EA	10.07.2024	ADDENDUM 1
Mark	Date	Description

PROJECT NO: 2021101.00

DATE: 09.13.2024

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

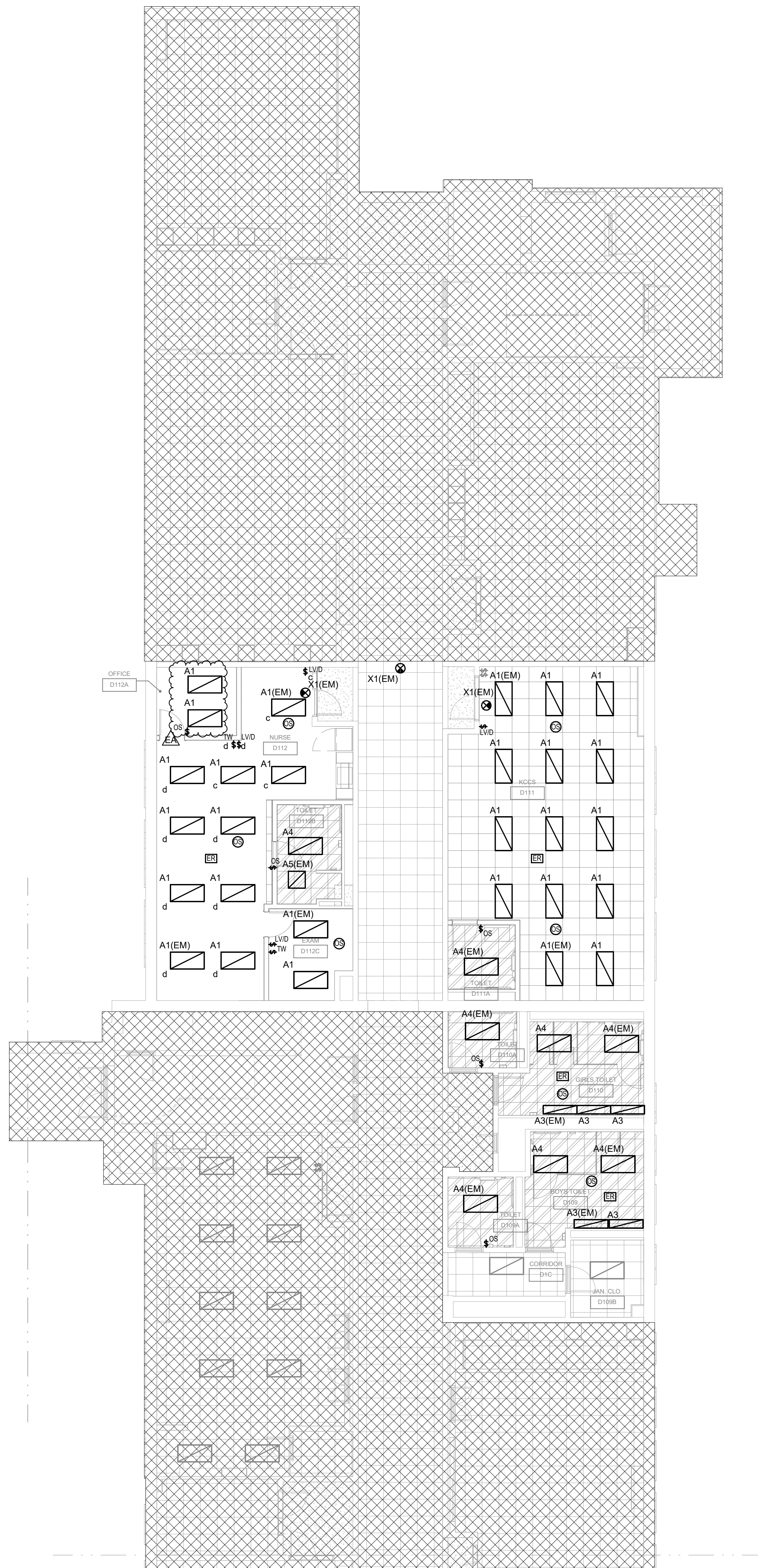
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E-201D/E

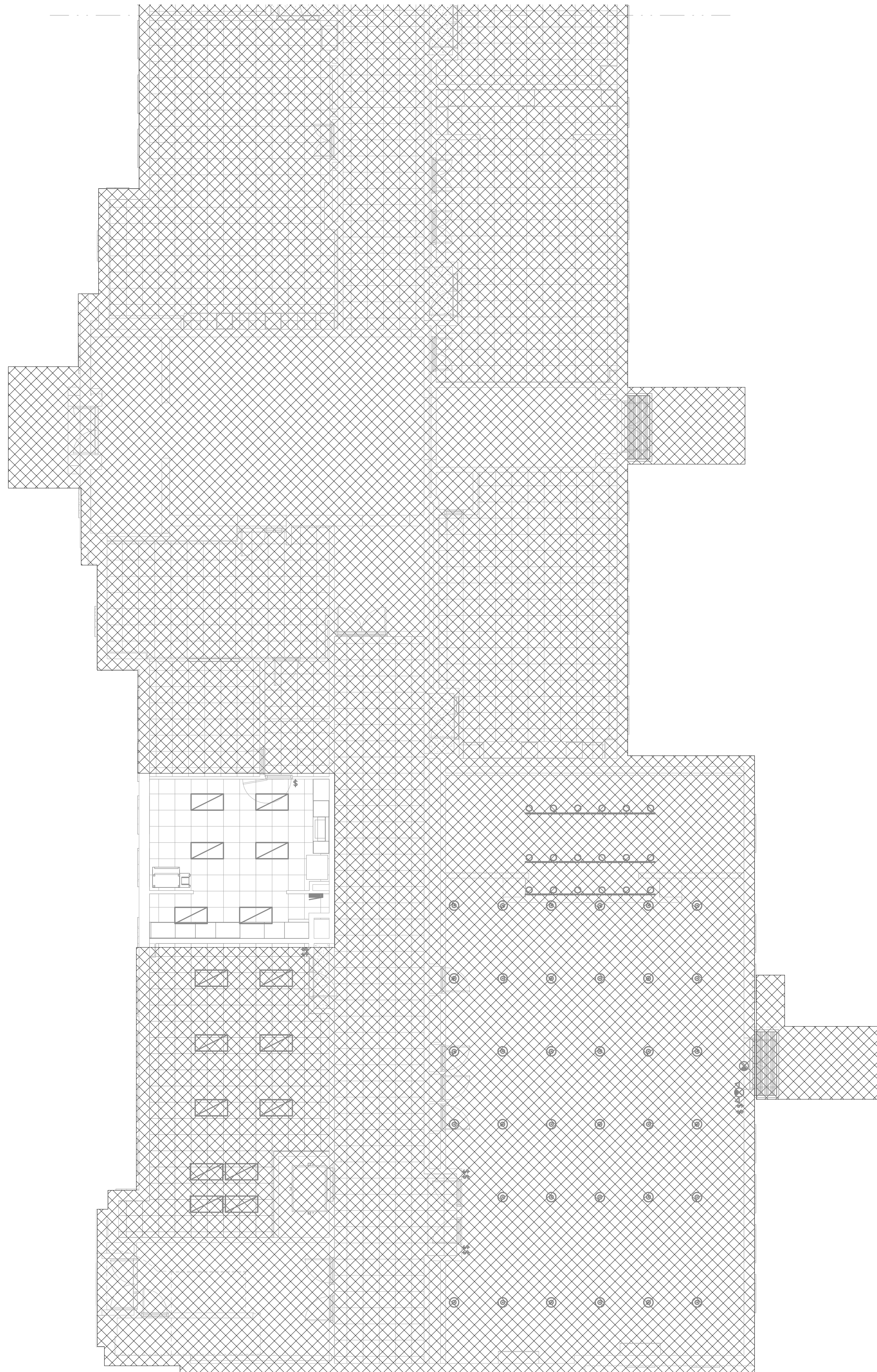
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GENERAL NOTES (LIGHTING):

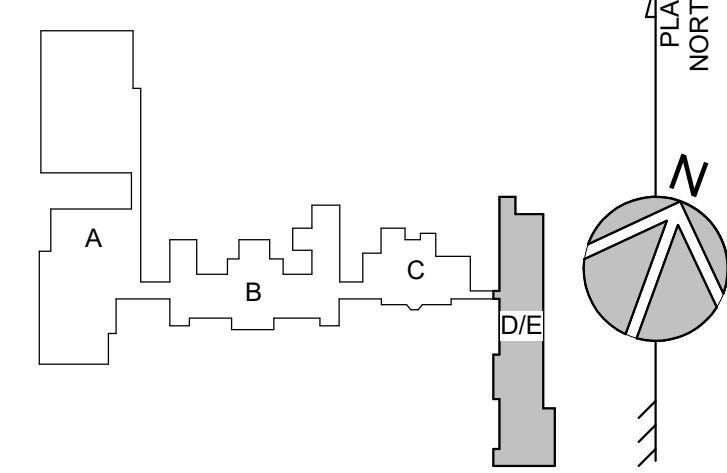
- REFER TO SHEET E-001 FOR SYMBOLS AND ABBREVIATIONS.
- ALL BOLDED/SOLID WORK SHOWN ON THIS PLAN SHALL BE NEW U.O.N.
- REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- REFER TO RISER DIAGRAM AND BRANCH CIRCUIT SCHEDULE FOR FEEDER AND BRANCH CIRCUIT CONDUCTOR SIZES U.O.N.
- REFER TO SHEET E-001 ELECTRICAL DETAILS FOR ADDITIONAL INFORMATION ABOUT LIGHTING FIXTURES, WIRING, AND DEVICES.
- CONNECT ALL NORMAL LIGHTING FIXTURES TO EXISTING NORMAL LIGHTING CIRCUIT MAINTAINED DURING DEMOLITION SERVING THAT AREA.
- (EM) INDICATES FIXTURES CONNECTED TO EMERGENCY POWER SOURCE. VERIFY THAT CIRCUIT AND FIXTURE OPERATING VOLTAGES ARE COMPATIBLE AND ENSURE CONNECTED LOAD SHALL NOT EXCEED ALLOWABLE LOAD LIMITS SPECIFIED IN NEC [210.23].
- ALL EXIT SIGNS AND EMERGENCY LIGHTING FIXTURES SHALL BE CONNECTED TO CLOSEST EXISTING EMERGENCY CIRCUIT SERVING THAT AREA MAINTAIN DURING DEMOLITION. VERIFY THAT CIRCUIT AND FIXTURE OPERATING VOLTAGES ARE COMPATIBLE AND ENSURE CONNECTED LOAD SHALL NOT EXCEED ALLOWABLE LOAD LIMITS SPECIFIED IN NEC [210.23]. CONTRACTOR SHALL PROVIDE UNSWITCHED CONDUCTOR TO ALL EXIT SIGNS, EMERGENCY LIGHT FIXTURES, AND NIGHT LIGHTS AS REQUIRED.
- LIGHTS IN INDIVIDUAL OFFICES OR ENCLOSED AREAS SHALL BE CONTROLLED BY ASSOCIATED WALL BOX OCCUPANCY/VACANCY SENSOR OR SWITCH AS SHOWN.
- PROVIDE DISCONNECTING MEANS FOR DRIVERS FOR ALL RELOCATED AND NEW LIGHTING FIXTURES PER NEC [410.130(G)(1)].
- CONTRACTOR SHALL FOLLOW BRANCH CIRCUITING LAY-OUT, AS INDICATED ON THE FLOOR PLANS, WITH A MAXIMUM OF THREE (3) BRANCH CIRCUITS PER HOMERUN. EACH BRANCH CIRCUIT SHALL BE PROVIDED WITH A DEDICATED NEUTRAL CONDUCTOR. DEDICATED NEUTRAL CONDUCTORS SHALL BE CONSIDERED CURRENT CARRYING. IF ADDITIONAL CONDUCTORS ARE RAN IN THE SAME CONDUIT WITH THOSE INDICATED, CONTRACTOR SHALL DERATE ALL CURRENT CARRYING CONDUCTORS PER N.E.C. #310.15(B)(3), AND UPSIZE CONDUIT AS REQUIRED PER N.E.C. #300.17 AND ANNEX C. MULTIWIRE BRANCH CIRCUITS AS DEFINED IN N.E.C. #100 / 210.4 (CIRCUITS SHARING A COMMON NEUTRAL CONDUCTOR) SHALL NOT BE PERMITTED.
- LOCATE EXIT SIGNS FOR MAXIMUM VIEWING AREA TO IDENTIFY EGRESS PATHS AS INDICATED ON PLANS. COORDINATE LOCATIONS SUCH THAT ARCHITECTURAL FEATURES OR EQUIPMENT FROM OTHER TRADES DO NOT OBSTRUCT VIEW.
- LUMINAIRES INDICATED WITH MULTI-LEVEL SWITCHING SHALL HAVE SIMILAR LAMPS CONTROLLED TOGETHER, I.E. INBOARD AND OUTBOARD LAMPS OR RIGHT AND LEFT HAND LAMPS.
- RECESSED LUMINAIRES SHALL BE SECURED SUCH THAT THE FORCE REQUIRED INSERTING LAMPS, TRIMS, LENSES, LOUVERS, OR DOOR FRAMES DOES NOT SHIFT HOUSING. ALL TRIMS SHALL BE COMPLETELY FLUSH WITH FINISHED CEILINGS AT COMPLETION OF CONSTRUCTION.
- CONNECT NEW CORRIDOR LIGHT FIXTURES AND OCCUPANCY SENSORS TO EXISTING CORRIDOR LIGHTING CONTROL SYSTEM. ENSURE THAT LOAD DOES NOT EXCEED NEC LIMITS. PROVIDE ADDITION CONTACTS AS NEEDED.

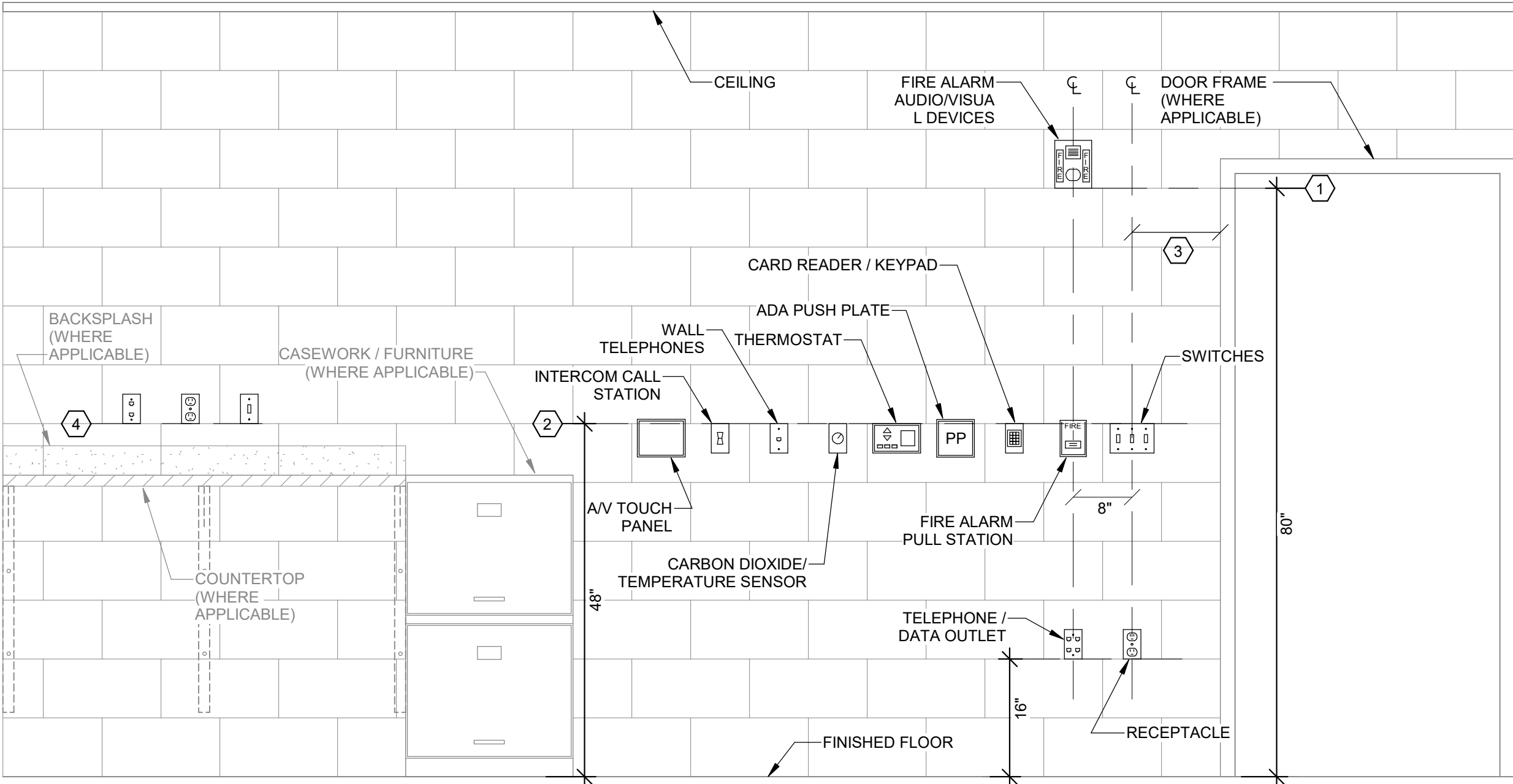


1 FIRST FLOOR ELECTRICAL LIGHTING PLAN - AREA D
SCALE: 1/8" = 1'-0"



2 FIRST FLOOR ELECTRICAL LIGHTING PLAN - AREA E
SCALE: 1/8" = 1'-0"





DEVICE MOUNTING DETAIL - GENERAL NOTES:

- WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN TO BE MOUNTED AT A SIMILAR HEIGHT, ALIGN HORIZONTALLY ALONG TOP OF DEVICE BACKBOX (AS SHOWN IN DETAIL AND DESCRIBED IN KEY NOTE #2).
- WHERE DEVICES OF ANY DISCIPLINE ARE LOCATED IN THE SAME GENERAL AREA ON THE PLANS AND ARE SHOWN MOUNTED AT DIFFERENT HEIGHTS, ALIGN VERTICALLY ALONG THE CENTERLINE OF THE DEVICE BACKBOX (AS SHOWN IN DETAIL).
- FOR ANY WALL OTHER THAN PAINTED GYPSUM BOARD OR CMU, DEVICE LOCATIONS MUST BE FIELD APPROVED BY ENGINEER OR ARCHITECT PRIOR TO INSTALLATION OF FINISHES.

DEVICE MOUNTING DETAIL - KEY NOTES:

- MOUNT VISUAL NOTIFICATION APPLIANCES SO THAT ENTIRE LENS IS BETWEEN 80" AND 96" AFF. IF CEILING IS TOO LOW FOR DEVICE TO BE MOUNTED ABOVE 80", MOUNT SO THAT THE LENS IS WITHIN 6" OF FINISHED CEILING.
- ALIGN BACKBOXES OF DEVICES AT THE MOUNTING HEIGHT INDICATED. MEASURE TO THE TOP OF THE BACKBOX FOR STANDARD OUTLET BOXES. NON-STANDARD BACKBOXES ARE TO BE INSTALLED SUCH THAT THE FINISHED DEVICES ARE ALIGNED ALONG THEIR RESPECTIVE CENTERLINES.
- MOUNTING HEIGHTS SHOWN ILLUSTRATE DESIGN INTENT AND ARE TO BE FOLLOWED UNLESS CONTRADICTED BY APPLICABLE CODE. WHERE DEVICES ARE SHOWN ADJACENT TO DOOR FRAMES ON PLANS INSTALL 12" FROM FRAME TO AVOID SLUSHED SECTIONS OR BRACING. SPECIFIC DEVICES ARE SHOWN IN RELATIVE ORDER FROM DOOR FRAME; WHERE THESE DEVICES ARE NOT PRESENT AT A PARTICULAR LOCATION, ADJUST LOCATIONS CLOSER TO DOOR ACCORDINGLY.
- THE CONTRACTOR IS TO COORDINATE ALL ROUGH-INS WITH ANY COUNTERTOPS/BACKSPLASHES TO AVOID CONFLICT. ALIGN DEVICE BACKBOXES IN THE BOTTOM OF THE NEXT FULL BLOCK ABOVE THE BACKSPLASH AS SHOWN. FOR NON-BLOCK WALLS ALIGN BOTTOM OF DEVICE BACKBOXES 4" ABOVE BACKSPLASH. COORDINATE WORK WITH CASEWORK AND KITCHEN SHOP DRAWINGS ACCORDINGLY. IF CONFLICT STILL ARISES CONTACT THE ENGINEER FOR DIRECTION ON HOW TO PROCEED.

LUMINAIRE SCHEDULE									
TYPE	DESCRIPTION	BASIS OF DESIGN	EQUAL MANUFACTURERS	MOUNTING	LAMPS / CCT	MINIMUM LUMENS	MAXIMUM WATTAGE	VOLTAGE	REMARKS
A1	2X4 RECESSED LED FIXTURE	COLUMBIA LIGHTING LCAT SERIES LCAT24-9-40-MW-G.-ED1-U	APPROVED EQUIVALENT	RECESSED	4000KLED	3500 LM	33	120	
A1(EM)	2X4 RECESSED LED FIXTURE - EMERGENCY CIRCUIT CONNECTION	COLUMBIA LIGHTING LCAT SERIES LCAT24-9-40-MW-G.-ED1-U	APPROVED EQUIVALENT	RECESSED	4000KLED	3500 LM	33	120	
A2	2X2 RECESSED LED FIXTURE	COLUMBIA LIGHTING LCAT SERIES LCAT22-9-35-LW-G-R.-ED1-U	APPROVED EQUIVALENT	RECESSED	3500KLED	2709 LM	23	120	
A2(EM)	2X2 RECESSED LED FIXTURE - EMERGENCY CIRCUIT CONNECTION	COLUMBIA LIGHTING LCAT SERIES LCAT22-9-35-LW-G-R.-ED1-U	APPROVED EQUIVALENT	RECESSED	3500KLED	2709 LM	23	120	
A3	1X4 RECESSED LED FIXTURE	COLUMBIA LIGHTING LCAT SERIES LCAT22-9-35-XW-G-R.-ED-U	APPROVED EQUIVALENT	RECESSED	3500KLED	2314 LM	19	120	
A3(EM)	1X4 RECESSED LED FIXTURE - EMERGENCY CIRCUIT CONNECTION	COLUMBIA LIGHTING LCAT SERIES LCAT22-9-35-XW-G-R.-ED-U	APPROVED EQUIVALENT	RECESSED	3500KLED	2314 LM	19	120	
A4	2X4 RECESSED LED FIXTURE	COLUMBIA LIGHTING LCAT SERIES LCAT24-9-40-MW-G.-E-U	APPROVED EQUIVALENT	RECESSED	4000KLED	3500 LM	33	120	
A4(EM)	2X4 RECESSED LED FIXTURE - EMERGENCY CIRCUIT CONNECTION	COLUMBIA LIGHTING LCAT SERIES LCAT24-9-40-MW-G.-E-U	APPROVED EQUIVALENT	RECESSED	4000KLED	3500 LM	33	120	
A5	2X2 RECESSED LED FIXTURE	COLUMBIA LIGHTING LCAT SERIES LCAT22-9-35-LW-G-R.-E-U	APPROVED EQUIVALENT	RECESSED	3500KLED	2709 LM	23	120	
A5(EM)	2X2 RECESSED LED FIXTURE - EMERGENCY CIRCUIT CONNECTION	COLUMBIA LIGHTING LCAT SERIES LCAT22-9-35-LW-G-R.-E-U	APPROVED EQUIVALENT	RECESSED	3500KLED	2709 LM	23	120	
A6	5X4 RECESSED LED FIXTURE	COOPER LIGHTING METALUX SERIES 4RBG6-100D-L840-80-A38-4/183DIM	APPROVED EQUIVALENT	RECESSED	4000KLED	4000 LM	36	120	
A6(EM)	5X4 RECESSED LED FIXTURE	COOPER LIGHTING METALUX SERIES 4RBG6-100D-L840-80-A38-4/183DIM	APPROVED EQUIVALENT	RECESSED	4000KLED	4000 LM	36	120	
M1(EM)	4' LED STRIP LIGHT FIXTURE	COLUMBIA LIGHTING CMT44-LSGS	APPROVED EQUIVALENT	SURFACE/WALL	3500KLED	4500 LM	32	120	
P1(EM)	EXTERIOR LED CANOPY LIGHT FIXTURE - EMERGENCY CIRCUIT CONNECTION	MPS-4-35-AL-CP-14-ED-U-MPSWG4	APPROVED EQUIVALENT	SURFACE	5000KLED	12555 LM	95	120	
V1(EM)	4' VAPORPROOF LED STRIP LIGHT FIXTURE	COLUMBIA LIGHTING CMT44-LSGS	APPROVED EQUIVALENT	SURFACE/WALL	3500KLED	5000 LM	38	120	
X1(EM)	EDGE LIT EXIT SIGN - EMERGENCY CIRCUIT CONNECTION	LITHONIA EDGR-R SERIES EDG.-FACES-RMR-X2	APPROVED EQUIVALENT	SURFACE/WALL	RED LED	-	2	120	

GENERAL NOTES (LUMINAIRE SCHEDULE):

- ALL LUMINAIRES AND COMPONENTS SHALL BE UL LISTED.
- WHERE LUMINAIRES ARE SHOWN SPLIT-WIRED (HALF EMERGENCY POWER/HALF NORMAL POWER) ON FLOOR PLANS, LUMINAIRES SHALL BE PROVIDED WITH MULTIPLE ELECTRONIC BALLASTS FOR MULTIPLE POWER CIRCUITS AS INDICATED ON FLOOR PLANS.
- PROVIDE BALLASTS FOR FIXTURE LAMP SWITCHING AS INDICATED ON LIGHTING FLOOR PLANS. WHERE A SINGLE FIXTURE IS POWERED FROM NORMAL AND EMERGENCY POWER, HALF OF THE LAMPS WITH A MINIMUM OF TWO LAMPS SHALL BE ON EMERGENCY POWER.
- CONTRACTOR SHALL FOCUS, AIM AND ADJUST LUMINAIRES UNDER THE SUPERVISION AND DIRECTION OF THE ENGINEER AND ARCHITECT. ALLOW LABOR FOR FINAL FOCUS AND ADJUSTMENTS AFTER DARK. LIFTS AND SCAFFOLDING SHALL BE AVAILABLE.
- EXIT SIGNS AND FIXTURES THAT ARE HATCHED OR WHERE THE FIXTURE TYPE CONTAINS THE SUFFIX "E" FOR EMERGENCY OPERATION SHALL HAVE AN INTEGRAL 90 MINUTE BATTERY INVERTER IF NOT POWERED FROM AN EMERGENCY GENERATOR.

COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Central Middle School
Project Type: Alteration

Construction Site: 211 DELAWARE AVENUE
Owner/Agent: DOVER, Delaware
Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-CLASSROOMS & WORKROOMS (Common Space Types: Classroom/Lecture/Training)	5444	0.96	5226
2-RESTROOMS & TOILETS (Common Space Types: Restrooms)	2954	0.85	2511
3-OFFICES (Common Space Types: Office - Enclosed)	892	0.93	830
4-STORAGE (Common Space Types: Storage >=50 - <=1000 sq.ft.)	399	0.46	184
5-CORRIDOR (Common Space Types: Corridor/Transition >=8 ft wide)	253	0.66	167
6-LOBBY/RECEPTION/WAITING AREA (Common Space Types: Lobby - General)	854	1.00	854
7-NURSE/CONFERENCE (Common Space Types: Conference/Meeting/Multipurpose)	1417	1.07	1516
Total Allowed Watts = 11287			

Proposed Interior Lighting Power

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	A Lamps / Fixture	B # of Fixture	C Watt. (C X D)
CLASSROOMS & WORKROOMS (Common Space Types: Classroom/Lecture/Training, 5444 sq.ft.)			
2X4 LED TROFFER: A1: Other:	1	41	33
2X4 LED TROFFER: A4: Other:	1	48	33
RESTROOMS & TOILETS (Common Space Types: Restrooms, 2954 sq.ft.)			
1X4 LED TROFFER: A3: Other:	1	26	19
2X4 LED TROFFER: A4: Other:	1	45	33
2X2 LED TROFFER: A5: Other:	1	3	23
OFFICES (Common Space Types: Office - Enclosed, 892 sq.ft.)			
2X4 LED TROFFER: A1: Other:	1	4	33
2X4 LED TROFFER: A4: Other:	1	12	33
STORAGE (Common Space Types: Storage >=50 - <=1000 sq.ft., 399 sq.ft.)			
2X4 LED TROFFER: A4: Other:	1	4	33
CORRIDOR (Common Space Types: Corridor/Transition >=8 ft wide, 253 sq.ft.)			
2X4 LED TROFFER: A4: Other:	1	4	33
LOBBY/RECEPTION/WAITING AREA (Common Space Types: Lobby - General, 854 sq.ft.)			
2X4 LED TROFFER: A4: Other:	1	7	33
2X2 LED TROFFER: A5: Other:	1	12	23
NURSE/CONFERENCE (Common Space Types: Conference/Meeting/Multipurpose, 1417 sq.ft.)			
2X4 LED TROFFER: A1: Other:	1	18	33
2X2 LED TROFFER: A2: Other:	1	8	23
2X4 LED TROFFER: A4: Other:	1	4	33
Total Proposed Watts = 7194			

Interior Lighting PASSES

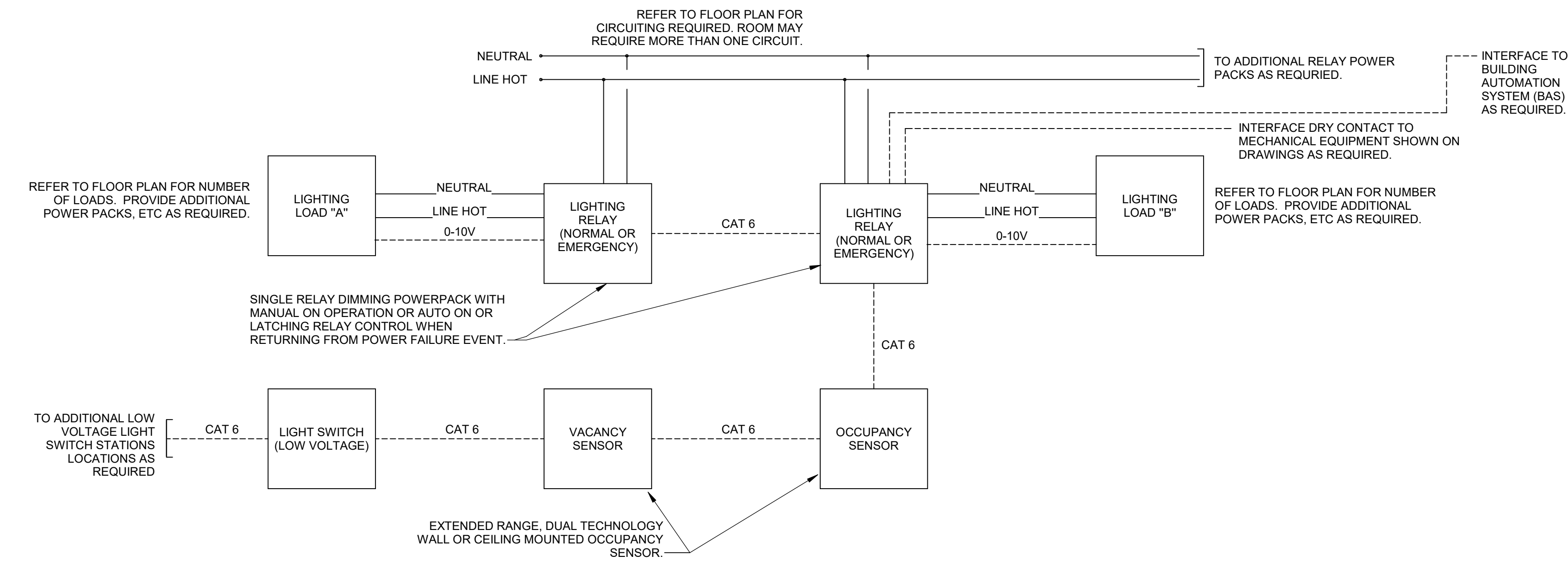
Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title Signature Date

1 TYPICAL WALL DEVICE MOUNTING DETAIL

NO SCALE



WIRING SCHEMATIC LEGEND

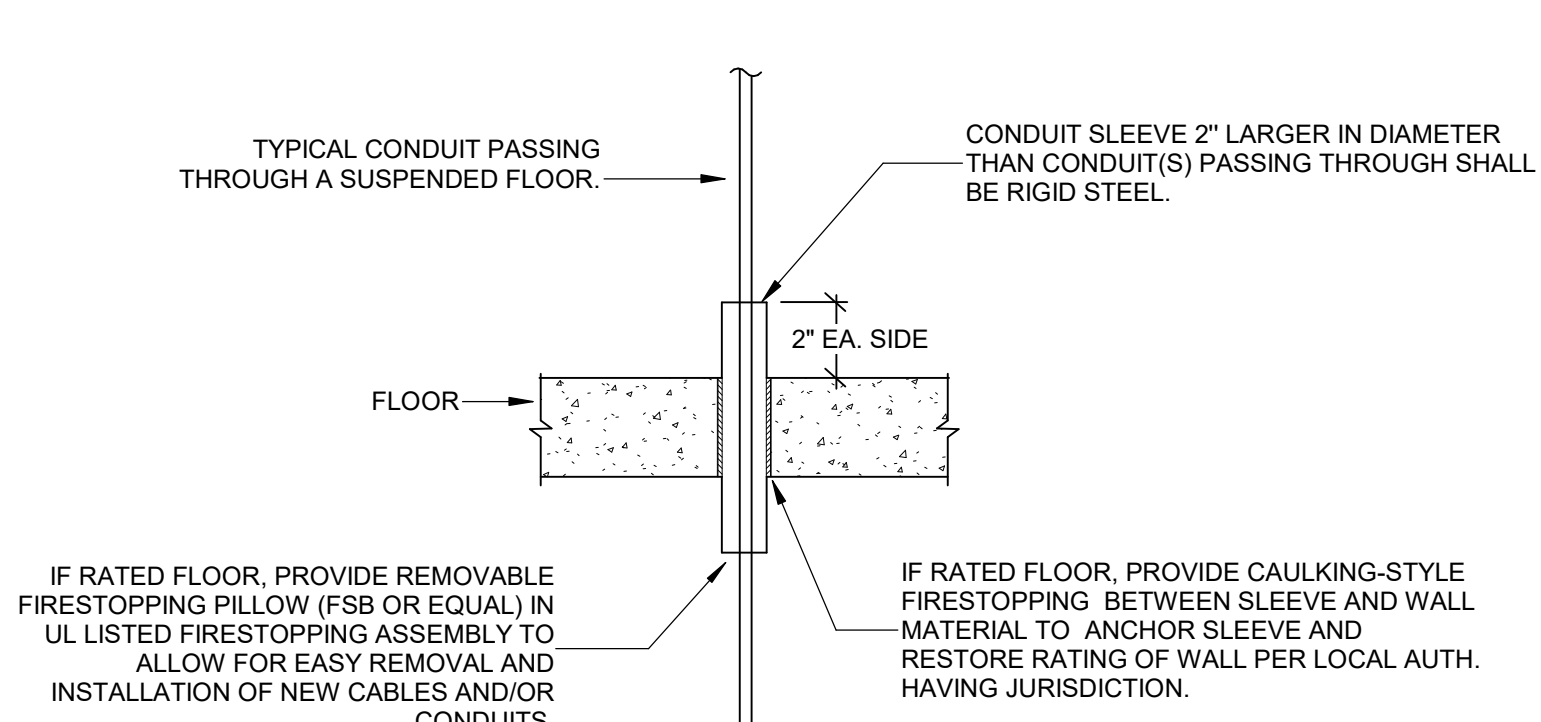
- LOW-VOLTAGE WIRING BY ELECTRICAL CONTRACTOR
- _____ LINE VOLTAGE WIRING BY ELECTRICAL CONTRACTOR

NOTES:

- VERIFY ALL WIRING REQUIREMENTS WITH MANUFACTURER OF OCCUPANCY SENSOR PRIOR TO ROUGH-IN. THIS DIAGRAM IS MEANT TO BE ILLUSTRATIVE ONLY.
- ALL POWER PACKS TO BE LOCATED IN CONCEALED LOCATIONS ABOVE ACCESSIBLE CEILINGS.
- PROVIDE J-HOOKS ON 4" CENTERS ABOVE CEILING FOR ALL CONTROL CABLING INDICATED BETWEEN RELAYS.
- CONTRACTOR SHALL PROVIDE AN EXTRA 10' OF CONTROL WIRING COILED UP ABOVE CEILING AT OCCUPANCY SENSOR.
- WHERE MULTIPLE CIRCUITS SERVE ONE AREA, CONTRACTOR SHALL PROVIDE ADDITIONAL RELAY PACKS AS REQUIRED TO CONTROL ALL CIRCUITS IN ROOM TOGETHER. REFER TO MANUFACTURER'S WIRING DIAGRAMS FOR WIRING REQUIREMENTS.
- WHERE MULTIPLE SENSORS AND MULTIPLE POWER PACKS ARE REQUIRED IN ONE ROOM, CONTRACTOR SHALL CONNECT SENSORS AND POWER PACKS SUCH THAT MOTION DETECTION BY ANY SENSOR IN THE ROOM SHALL ALLOW ALL CIRCUITS IN THE ROOM TO OPERATE. PROVIDE ALL ACCESSORIES AND WIRE DEVICES PER MANUFACTURER'S REQUIREMENTS FOR OPERATION AS DESCRIBED.
- SYSTEM SHALL BE SENSOR SWITCH LIGHT, HUBBELL NX, WATTS TOPPER DLM, OR APPROVED EQUAL. SYSTEM SHALL BE PROVIDED, WIRED AND CONTROLLED AS A COMPLETE AND OPERABLE SYSTEM.
- ALL OCC SENSORS TO BE (CEILING/WALL MOUNTED) DUAL TECHNOLOGY/PIR/ULTRASONIC SENSORS WITH POWER PACKS. FOR SECURE/GOVERNMENT SPACES, COORDINATE WITH OWNER IF DUAL TECHNOLOGY SENSORS ARE ACCEPTABLE OR IF PIR SENSORS ARE REQUIRED. WHERE INDICATED AS WALL TYPE, PROVIDE WITH WITH RECESS BACKBOX, STUB-OUT AND GROMMETTED COVER PLATE FOR CABLING. PROVIDE WITH ADDITIONAL EMS RELAY FOR BUILDING MANAGEMENT.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL LIGHTING CONTROLS, SHOWING LOCATIONS OF DEVICES OVERLAIN ON REJECTED CEILING PLANS. THESE SHOP DRAWINGS SHALL SHOW ALL WIRING REQUIRED FOR THE SITE SPECIFIC APPLICATION.

2 LIGHTING CONTROL WIRING DIAGRAM

NO SCALE



GENERAL FLOOR PENETRATION NOTES:

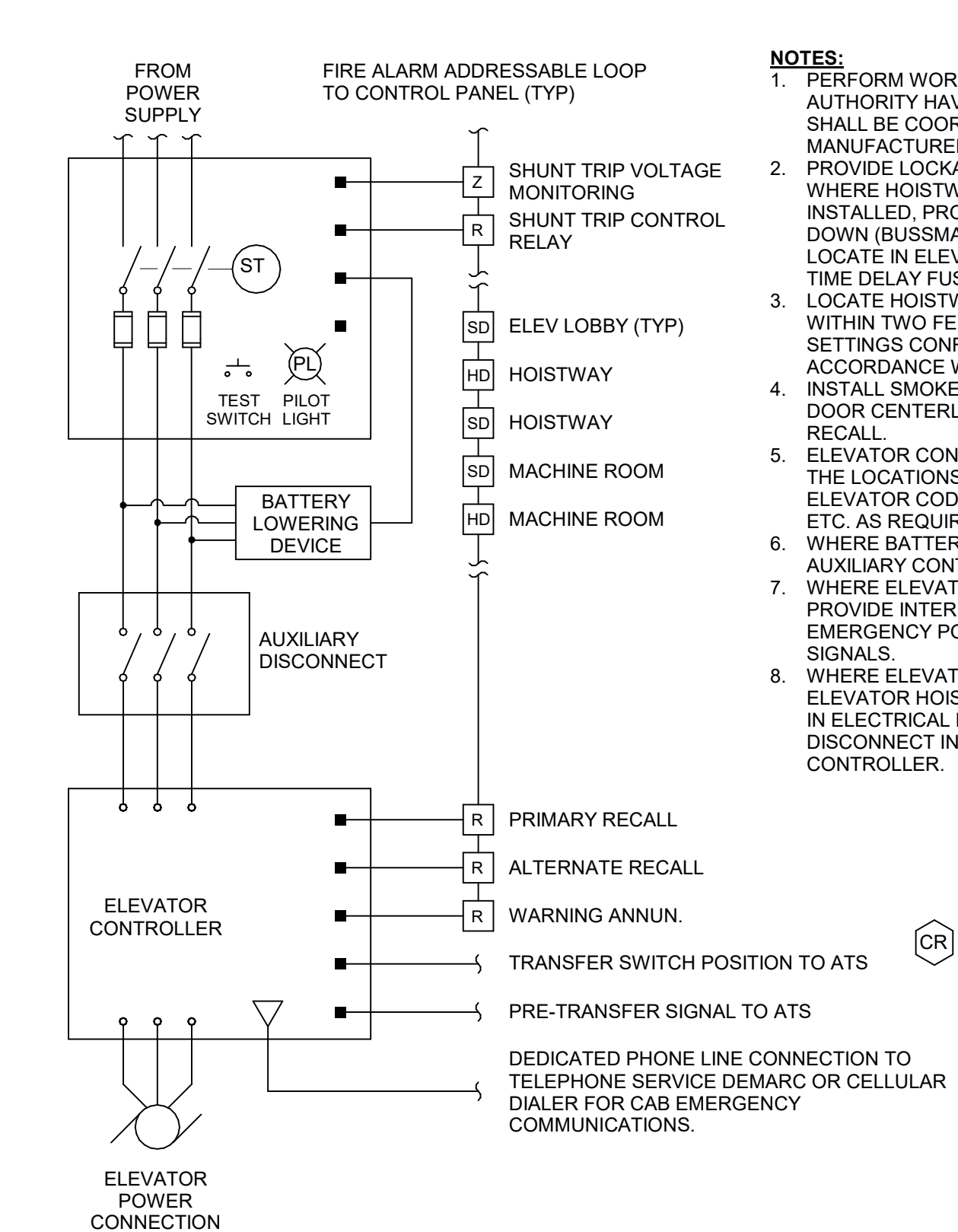
- WHERE CONDUITS PENETRATE A FLOOR SLAB AND ARE EXPOSED, PROVIDE SQUARE 4" HIGH CONCRETE PAD AROUND CONDUIT SLEEVE AND EXTEND SLEEVE 4" ABOVE PAD.
- WHERE CONDUITS OR SLEEVES PENETRATE FLOORS IN GROUPS, THE CONCRETE PAD SHOULD BE CONTINUOUS AROUND ALL CONDUITS OR SLEEVES.

3 CONDUIT PENETRATION SLEEVE INSTALLATION

NO SCALE

4 SINGLE CAB ELEVATOR PIT

NO SCALE



5 ELEVATOR CONNECTION DIAGRAM

NO SCALE

NOTES:

- PERFORM WORK IN ACCORDANCE WITH ALL ADOPTED CODES AND AUTHORITY HAVING JURISDICTION (AHJ) REQUIREMENTS AND SHALL BE COORDINATED WITH ELEVATOR EQUIPMENT MANUFACTURER.
- PROVIDE LOCKABLE ELEVATOR POWER FUSED DISCONNECT, WHERE HOISTWAY AND/OR MACHINE ROOM SPRINKLERS ARE INSTALLED, PROVIDE INTEGRAL SHUNT TRIP FOR ELEVATOR SHUT DOWN (BUSMAN POWER MODULE SERIES OR EQUIVALENT) LOCATE IN ELEVATOR MACHINE ROOM. PROVIDE DUAL ELEMENT TIME DELAY FUSES PER ELEVATOR SHOP DRAWINGS.
- LOCATE HOISTWAY AND MACHINE ROOMSPACE HEAT DETECTORS WITHIN TWO FEET OF EACH SPRINKLER HEAD WITH TEMPERATURE SETTINGS CONFIGURED TO ALARM BEFORE SPRINKLER HEADS IN ACCORDANCE WITH NFPA REQUIREMENTS.
- INSTALL SMOKE DETECTORS WITHIN 21 FEET OF EACH ELEVATOR DOOR CENTERLINE ON EACH FLOOR FOR EMERGENCY ELEVATOR RECALL.
- ELEVATOR CONTROLLER - MAKE ALL REQUIRED CONNECTIONS AT THE LOCATIONS INDICATED BY ELEVATOR SHOP DRAWINGS & ELEVATOR CODE. PROVIDE ADDITIONAL RELAYS, DRY CONTACTS, ETC. AS REQUIRED FOR A COMPLETE SYSTEM.
- WHERE BATTERY LOWERING DEVICE IS SPECIFIED, PROVIDE AUXILIARY CONTACT AND POWER WIRING.
- WHERE ELEVATOR IS SUPPLIED FROM EMERGENCY GENERATOR, PROVIDE INTERFACE TO AUTOMATIC TRANSFER SWITCH FOR EMERGENCY POWER TRANSFER AND POWER CHANGE PENDING SIGNALS.
- WHERE ELEVATOR CONTROLLER IS LOCATED AS PART OF THE ELEVATOR HOISTWAY, LOCATE ELEVATOR DISCONNECTING MEANS IN ELECTRICAL ROOM AND PROVIDE ADDITIONAL NON-FUSED DISCONNECT IN THE HOISTWAY WITHIN SIGHT OF THE CONTROLLER.

ACCESS CONTROL CARD READER. COORDINATE WITH ELEVATOR MANUFACTURER TO PROVIDE CONNECTIONS OF IN CAB DEVICES WITH ACCESS CONTROL SYSTEM.



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CONSTRUCTION MANAGER
18404 JOHNSON AVENUE
LINCOLN, DELAWARE 19960

302-422-3732 fax 302-422-4696

PROJECT TITLE

CENTRAL
MIDDLE TO
ELEMENTARY
SCHOOL
INTERIOR
RENOVATION

211 DELAWARE AVE
DOVER, DE 19901

ISSUED
FOR BIDDING

ISSUED: 09/13/2024

SHEET TITLE

ELECTRICAL DETAILS

ISSUE BLOCK

EA	Date	Description
10-07-2024	ADDENDUM 1	

PROJECT NO: 2021101.00

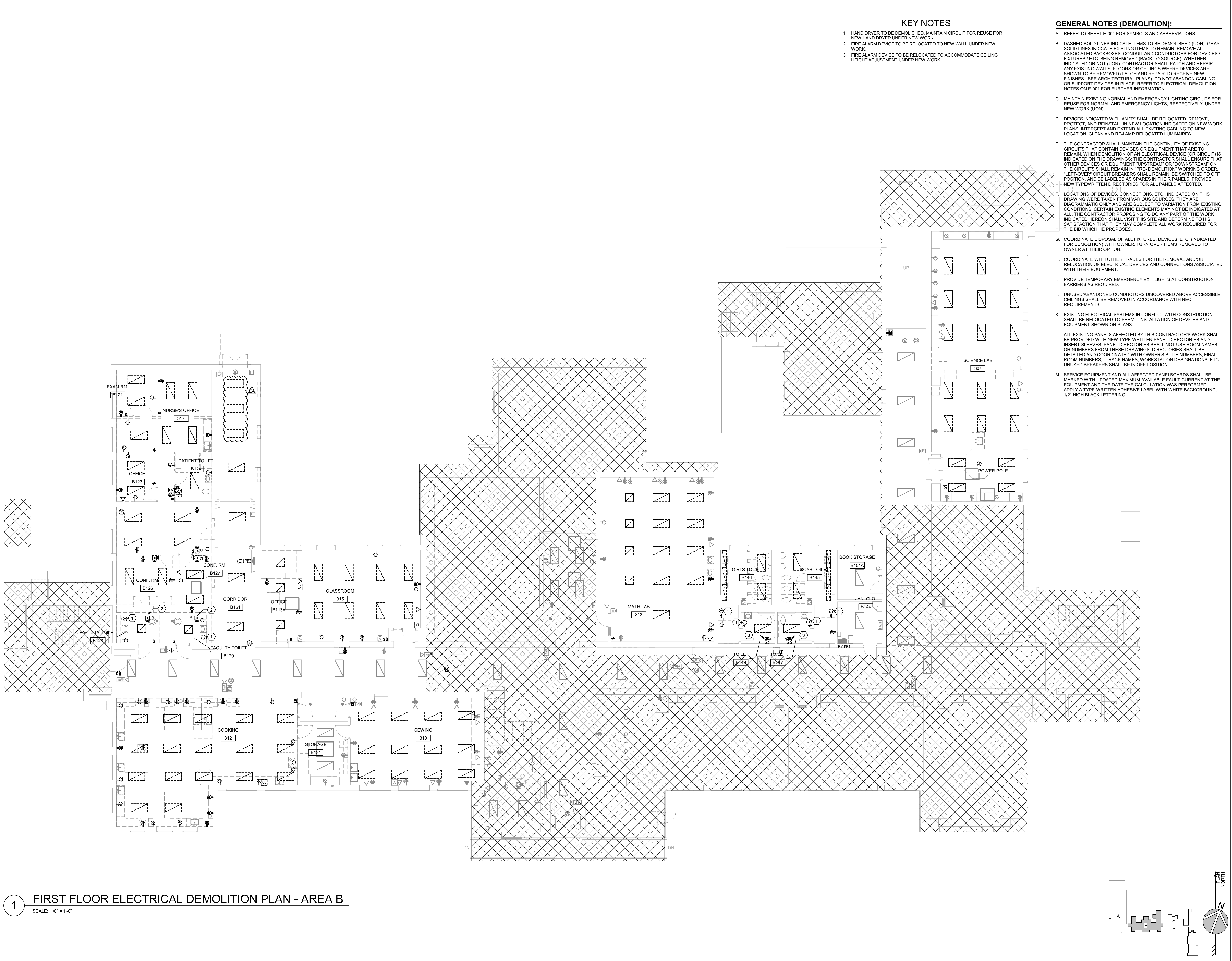
DATE: 09.13.2024

SCALE: As indicated

DRAWN BY: JHA PROJ MGR: MO

E-501

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PROJECT TITLE

CENTRAL
MIDDLE TO
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SCHOOL
INTERIOR
RENOVATION

211 DELAWARE AVE
DOVER, DE 19901

ISSUED
FOR BIDDING

ISSUED: 09/13/2024

SHEET TITLE

FIRST FLOOR
ELECTRICAL
DEMOLITION PLAN -
AREA B

ISSUE BLOCK

Mark	Date	Description

EA

10.07.2024

ADDENDUM 1

Mark

Date

Description

PROJECT NO: 2021101.00

DATE: 09.13.2024

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

DRAWN BY: JHA

PROJ MGR: MO

ED-101B

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