NOT FOR CONSTRUCTION

Renovations to

MANSFIELD MIDDLE SCHOOL CAFETERIA

205 Spring Hill Rd, Storrs, CT

Bid Set
March 18, 2026

Owner

Mansfield Public Schools
4 S Eagleville Road
Storrs Mansfield, CT 06268
860-429-3350

Architect:

Crosskey Architects LLC
750 Main Street
Hartford, CT 06103
860-724-3000

Structural Engineer:

PES Structural Engineers
2446 Albany Avenue, Suite 302
West Hartford, CT 06117
(860)479-1737

Mech / Elec / Plumbing Engineer:

Acorn Consulting Engineers INC
244 Farms Village Road
West Simsbury, CT 06092
860-651-1949

GENERAL NOTES

1. Contractor shall review all the drawings and specifications in the contract document set. The contractor shall coordinate all work shown in the contract document set with sub-contractors. The contractor shall provide a complete set of contract documents to all sub-contractors and related parties. Sub-contractors shall examine the contract document set and be familiar with any and all work that affects their scope of work.
2. Contractor shall maintain a current set of drawings and specifications on-site at all times and ensure the distribution of new drawings to sub-contractors and other relevant parties as soon as they are mad available. All old drawings shall be marked as "void" and shall be removed from the contract drawing area. Contractor shall furnish a clean marked "As-Built" set of drawings, from original permit set to the building owner upon completion of the project.
3. Contractor is responsible for all the material and/or labor required to complete the project as per the design team's design intent shown on the contract documents. Any omissions of work on contract documents do not excuse the contractor from including the work provided that the intent is established within any section of the contract documents either graphically or in text.
4. Contractor shall be responsible for the protection of surrounding buildings, plantings, furnishings, & equipment from damage caused by construction activities, from the time the JOB is awarded until all work is complete and accepted by the owner and architect. This includes all necessary barriers, shoring, bracing and underpinning that may be necessary.
5. G.C. to provide all demolition and dumpsters as is necessary to complete the work.
6. All materials are to be new unless noted otherwise and shall be installed per manufacturer's recommendations.
7. If plans and specifications provide conflicting information, then the strictest, most expensive interpretation shall apply.
8. Provide shop drawings for all steel fabrication other than loose steel lintels and basement columns.
9. All finish flooring shall be new unless noted otherwise. Remove existing flooring and prepare surfaces as required to receive new flooring.
10. All interior dimensions shown for existing construction is to the face of finished surface. Interior dimensions for new work shown are given from face of stud for stud walls, face of masonry for masonry walls, or centerline of beams/columns (UNO)." All dimensions to be field verified. G.C. shall notify the Architect promptly with discrepancies, if any.
11. Contractor shall familiarize himself with the project through the inspection of the site, building, drawings, and specifications. The existing construction shown on the the drawings represents the observable conditions by the Architect at the time of field survey. Contractor shall verify in field all dimensions and existing conditions prior to commencement of work. Notify Architect of any discrepancies between existing conditions and new work. Any work performed prior to proper field verification and found to be nonconforming to the contract documents is subject at no cost to the Owner.
12. Repair/infill all abandoned penetrations, or missing construction in wall/ceiling assemblies that are exposed to view or act as plenum spaces. Repair/infill construction to match adjacent existing construction.
13. Drawings may not detail every existing condition or intersection of existing to new work. Where a detail is developed and referenced for a specific condition, same or similar detail shall apply to identical or similar conditions elsewhere in the project.
14. Contractor shall provide all necessary demolition of existing walls, ceilings, fixtures and other components as required to complete the scope of work as indicated on these drawings.
15. When removing existing components, care must be taken to ensure that adjacent surfaces to remain are not damaged. Patch any damage which might occur. Prepare for new finishes or layout.
16. When a wall is indicated to be removed, all existing components or services in or on the wall shall be removed and/or relocated (lights, plumbing, etc.)
17. Contractor shall patch and repair any damages to existing components which are to remain.
18. Return all reusable items to be removed such as doors, overhead heaters, fans, lights, hardware, etc. to owner if requested.

SYMBOLS LEGEND

- 1 / A101 — Exterior Elevation
- A / D B / C — Interior Elevation
- 1 / A1.1 — Detail Letter / Number; Drawing Number
- A / A1.1 — Wall Section Number; Drawing Number
- AA / A1.1 — Building Section; Drawing Number
- 1 / A1.1 — Plan Detail Number; Sheet Location
- Enlarged Detail Area
- Stair A — Room Name
- 100 — Room Number
- 100 — Door Tag
- X — Signage Type / Location Refer to Drawings
- A — Wall Type
- A / Flr./Clg. Above — Floor/Ceiling Type Above
- XX — Aluminum Frame Type
- 1 — Glazing Type (Or Revision Tag)
- ALF-1 — Curtain Wall Type; Storefront Type
- A — Window Type
- 8 — Accessories
- GWB / 8'-0" — Ceiling Material; Ceiling Height (AFF)
- Name / Elevation — Elevation Indicator
- R.P. — Reference Point
- ℄ — Center Line
- 1 — Drawing Keynote
- A — Column Centerline And Number

PROJECT DESCRIPTION

The primary goal of the work is to upgrade interior finishes, ceilings, lighting in the existing cafeteria and replace the current group of doors with an overhead rolling security gate. The proposed work constitutes a Level 1 Alteration. The existing acoustic ceiling tile (ACT) ceiling will be removed, along with all lights, and the door slabs at the four primary entrances. New spray-applied acoustic material will be applied to the ceilings, which will be left exposed with four new acoustic ceiling tile 'clouds' suspended from the ceiling. New lighting will be installed, along with new flooring and new door slabs and hardware.

LIST OF DRAWINGS

		REVISION	DATE
GENERAL SHEETS			
G-000	COVER SHEET		3/18/2026
G-100	GENERAL INFORMATION		3/18/2026
ARCHITECTURAL SHEETS			
AD-100	DEMOLITION PLAN & CEILING PLAN		3/18/2026
A-100	FLOOR PLAN		3/18/2026
AC-100	REFLECTED CEILING PLAN		3/18/2026
A-300	BUILDING SECTION		3/18/2026
A-400	CONSTRUCTION ASSEMBLIES & DETAILS		3/18/2026
A-600	DOOR SCHEDULE & DETAILS		3/18/2026
AF-100	FINISH PLAN & SCHEDULE		3/18/2026
AF-200	CONCEPTUAL DESIGN BOARD		3/18/2026
A-700	ARCHITECTURAL SPECIFICATIONS		3/18/2026
STRUCTURAL SHEETS			
S-001	GENERAL NOTES & SCHEDULES		3/13/2026
S-100	STRUCTURAL PLAN & DETAILS		3/13/2026
ELECTRICAL SHEETS			
E-100	Cafeteria Floor Plan		3/18/2026
E-200	Electrical Specifications		3/18/2026

DEFINITIONS

RESTORE	Renovate to original "like new" condition. If portions of work are damaged beyond repair, consult architect and replace w/ new to replicate original.
CLEAN	Remove dirt, soil, debris and any foreign elements adhered to the surface. Consult architect for method of cleaning.
REPLACE	Remove existing and provide & install new material. Consult architect on material to replace existing.
REFINISH	Renovate existing finish to original "like new" condition.
REFURBISH	Clean, restore, refinish to match original "like new" condition.
MATCH EXISTING	Area of work shall replicate in every respect similar elements, finishes, etc., which are existing. If existing work is to be improved, items noted to match existing shall match the improved condition.

* NOTE: In all of the above, consult w/ architect and refer to plans.

ELECTRICAL DEVICE MOUNTING HEIGHTS

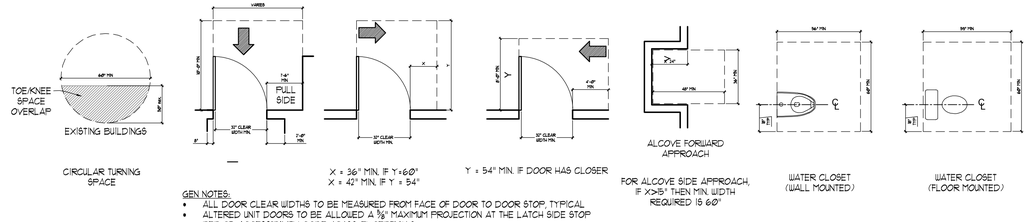
1. All dimensions are to center of device unless otherwise noted. Receptacles:

- Typical locations, mount at 18" AFF.
- At locations above casework, mount bottom of receptacle at 2" above backsplash.
- At locations below casework, mount at 24" AFF.
- At exterior locations mount 24" above grade.

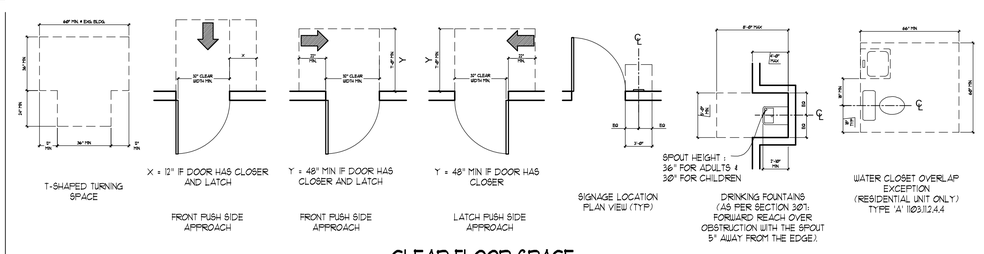
Switches:	48" AFF.
Boiler emergency switches:	60" AFF.
Wiremold:	24" AFF.
Data/phone/TV outlets:	18" AFF.
Fire alarm pull stations:	48" AFF.
Fire alarm visual/audio indicating units:	80" AFF.
Area of refuge call station:	48" AFF.
Emergency shut-off switch/ Push button:	48" AFF.
Emergency call switch:	36" AFF.
Emergency call bell/light:	90" AFF. (Centered above door)
Wall mounted exit signs:	90" AFF.

ABBREVIATIONS

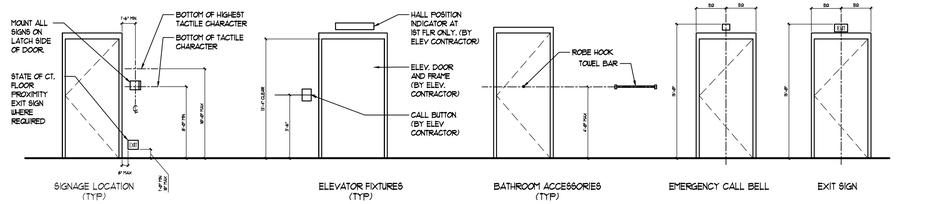
ABBREV	Abbreviation
ACOUS	Acoustical
AD	Area Drain
ADJ	Adjustable
AFF	Above Finished Floor
AGGE	Aggregate
ALF	Aluminum Frame
ALUM	Aluminum
APPROX	Approximate
ARCH	Architectural
ASB	Asbestos
ASPH	Asphalt
AT	Acoustical Tile
ATC	Acoustical Tile Ceiling
B	Bathroom
BD	Board
BFE	Bottom of Footing Elevation
BIT	Bituminous
BLDG	Building
BLK	Block
BLKG	Blocking
BM	Beam
BOT	Bottom
BR	Bedroom
℄	Center Line
CAB	Cabinet
CB	Catch Basin
CEM	Cement
CER	Ceramic
CI	Cast Iron
CJ	Control Joint
CL	Closet
CLG	Ceiling
CLKG	Caulking
CLR	Clear
CMU	Concrete Masonry Unit
CNTR	Counter
CO	Cased Opening
COL	Column
CONC	Concrete
CONN	Connection
CONSTR	Construction
CONT	Continuous
CORR	Corridor
CPT	Carpet
CS's	Courses ½
CT	Ceramic Tile
CTSK	Countersink
CTR	Center
D	Dryer
D.B.	Drawer Base
DBL	Double
DET	Detail
DF	Drinking Fountain
DH	Double Hung
DIA	Diameter
DIM	Dimension
DISP	Dispenser
DN	Down
DO	Door Opening
DR	Door
DS	Downspout
DU	Duelling Unit
DW	Dishwasher
DWG	Drawing
DWR	Drawer
E	East
EA	Each
EF	Exhaust Fan
EJ	Expansion Joint
EL	Elevation
ELEC	Electrical
ELEV	Elevator
EMER	Emergency
ENCL	Enclosure
EP	Electrical Panel Board
EQ	Equal
EQUIP	Equipment
EW	Each Way
EXG	Existing
EXPO	Exposed
EXP	Expansion
EXT	Exterior
FA	Fire Alarm
FD	Floor Drain
FDN	Foundation
FE	Fire Extinguisher
FEC	Fire Extinguisher Cabinet
FG	Fiberglass
FHC	Fire Hose Cabinet
FIN	Finish
FLG	Flashing
FLR	Floor
FLUOR	Fluorescent
FOC	Face of Concrete
FOF	Face of Finish
FOS	Face of Stud
FPRF	Fireproof
FPS	Fire Pull Station
FS	Full Size
FT	Foot or Feet
FTG	Footing FUT Future
GA	Gauge
GALV	Galvanized
GB	Grab Bar
GC	General Contractor
GL	Glass
GND	Ground
GR	Grade
GYP	Gypsum
GWB	Gypsum Wallboard
HB	Hose Bib
HC	Hollow Core
HCP	Handicapped
HDWD	Hardwood
HDWR	Hardware
HGT	Height
HM	Hollow Metal
HORIZ	Horizontal
HR	Hour
HW	Hot Water Heater
ID	Inside Diameter
INSUL	Insulation
INT	Interior
JAN	Janitor
JST	Joist
JT	Joint
K or KIT	Kitchen
L or LIN	Linen Closet
LAB	Laboratory
LAM	Laminate
LAV	Lavatory
LKR	Locker
LNDY	Laundry
LT	Light
MAX	Maximum
MC	Medicine Cabinet
MCT	Marmoleum Composition Tile
MECH	Mechanical
MEMB	Membrane
MFR	Manufacturer
MH	Manhole
MIN	Minimum
MIR	Mirror
MISC	Miscellaneous
ML	Micro-Lam Beam
MO	Masonry Opening
MTD	Mounted
MTL	Metal
MUL	Mullion
N	North
NIC	Not In Contract
NO	or # Number
NOM	Nominal
NTS	Not To Scale
OA	Overall
OC	On Center
OD	Outside Diameter
OFF	Office
OPNG	Opening
OPP	Opposite
OSB	Oriented Strand Board
P or PAN	Pantry
PERP	Perpendicular
PC	Precast
PMEJ	Premolded Exp. Joint
PMF	Premolded Filler
PL	Plate
PLAM	Plastic Laminate
PLAS	Plaster
PLYWD	Plywood
PR	Pair
PT	Pressure Treated
PTN	Partition
QT	Quarry Tile
R	Riser
RAD	Radius
RB	Resilient Base
RD	Roof Drain
REBAR	Reinforcing Bar
REF	Refrigerator
REFR	Reference
REG	Register
REINF	Reinforced
REQ'D	Required
RES	Resilient
RM	Room
RO	Rough Opening
RS	Rough Sawn
RTC	Resilient Tread Covers
RWD	Redwood
RWL	Rain Water Leader
SC	Solid Core
SF	Square Foot
SH	Single Hung
SIM	Similar
SQ	Square
S&R	Shelf & Rod
STD	Standard
STL	Steel
STO	Storage
T	Tread
T&B	Top & Bottom
T&G	Tongue & Groove
TO	Top of
TOF	Top of Floor
TOS	Top of Slab
TOW	Top of Wall
TYP	Typical
VCT	Vinyl Composition Tile
VIF	Verify in Field
VWC	Vinyl Wall Covering
W	Washer
W/	With
WB	Wall Base
WD	Wood
WM	Water Meter
W/O	Without
WT	Weight
YR	Year

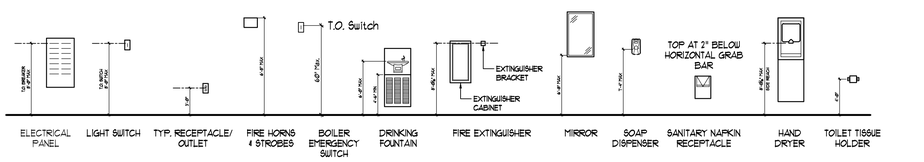


GEN NOTES:
- ALL DOOR CLEAR WIDTHS TO BE MEASURED FROM FACE OF DOOR TO DOOR STOP, TYPICAL
- ALTERED UNIT DOORS TO BE ALLOWED A ⅝" MAXIMUM PROJECTION AT THE LATCH SIDE STOP PER CT. ACCESSIBILITY CODE 404.2.2, EXCEPTION 2

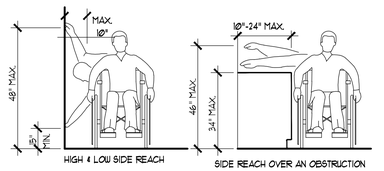


CLEAR FLOOR SPACE

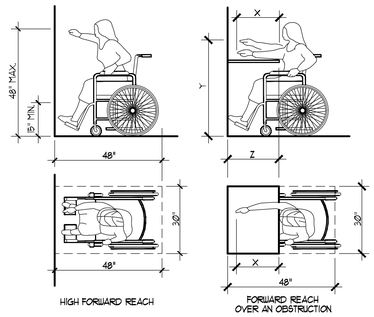




DEVICE MOUNTING HEIGHTS

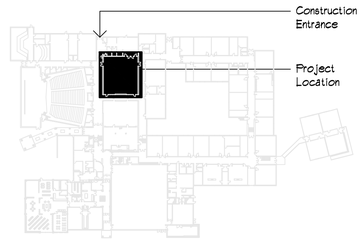


Z SHALL BE ≥ X
WHERE X ≤ 20": Y MAY BE 48" MAX.
WHERE X IS 21"-25": Y IS 44" MAX.



ACCESSIBLE REACH LIMITS

PROJECT LOCATION



1 FLOOR PLAN
SCALE: NTS

NORTH

Crosskey Architects LLC
Architecture Preservation Planning
750 Main Street, Hartford, CT 06103
T: (860)724-3000 F: (860)724-3013

Mansfield Middle School Cafeteria

Street, Mansfield, CT

Town of Mansfield

NOT FOR CONSTRUCTION

Drawn: MR / JG / TN
Date: 03/18/2026
Revisions

Drawing List & General Info

G-100

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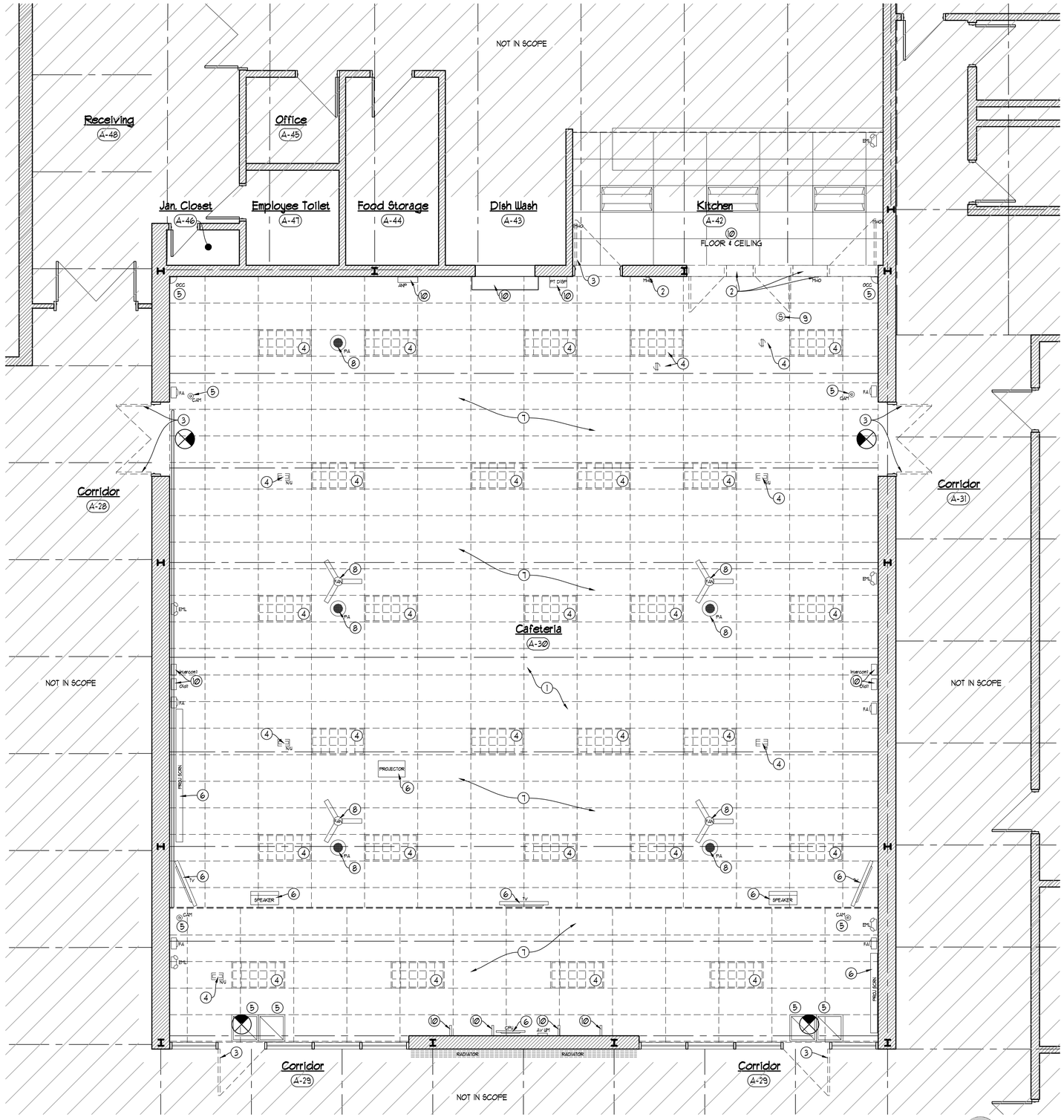

1 DEMOLITION FLOOR & REFLECTED CEILING PLAN
SCALE: 1/4"=1'-0"

DEMOLITION KEY NOTES:

1. Remove and dispose of all finished flooring material and wall base. Patch / prepare subfloor surface to accept new flooring. Imperfections to be filled per new flooring manufacturer's recommendations.
2. Remove and dispose of existing wall to extents shown. Remove and dispose of all doors, frames, and associated hardware (magnetic hold-opens, etc.) located in wall to be removed. Relocate or disconnect any electrical or communication wiring within or secured to the wall.
3. Remove and dispose of door slab and associated hardware affixed to door and frame. Associated magnetic wall hold-opens and metal frames to remain in place. Prep frame for new paint and to recieve new door slab and hardware.
4. Remove and dispose of electrical fixtures as indicated.
5. Temporarily remove equipment from existing ACT ceiling and secure in place in operational condition.
6. Careful remove equipment or fixture and store for re-installation as noted on scope of work drawings
7. Remove and dispose of existing acoustic ceiling tiles and grid, along with all fasteners, wires, and supports dedicated solely to the acoustic ceiling tile grid.
8. Carefully remove existing component and save for re-use. Refer to new work reflected ceiling plan for locations.
9. Existing smoke detector. Refer to electrical drawings for future use.
10. Existing component to remain in place. Protect during construction.

DEMOLITION GENERAL NOTES:

1. These demolition drawings are intended to provide a schematic representation of demolition. Information shown on these diagrams shall not limit the scope of demolition work. Contractor shall be responsible for providing all necessary demolition as required to complete scope of work as indicated by the contract documents. Coordinate all demolition work with proposed work.
2. Contractor shall verify existing conditions prior to commencement of demolition work. Notify architect of any discrepancies between required demolition and new work.
3. When removing existing components, care must be taken to ensure that adjacent surfaces to remain are not damaged. Patch and repair any damage to existing to remain components that may occur. Prepare for new layout and finishes.
4. Legally dispose of all construction debris off site in accordance with all federal regulations, state and local ordinances.
5. All components shown as dashed shall be removed. Components that are not dashed shall remain unless noted otherwise.
6. When a wall is indicated to be removed, all existing components or services mounted in or on the wall shall be removed and/or relocated.
7. If requested, return all reusable items to be removed such as doors, windows, wood trim, hardware, A/V equipment, etc. to owner.
8. Refer to mechanical, electrical, and plumbing drawings for the scope of demolition work for MEP trades not indicated on the architectural drawings.
9. Refer to structural drawings for the final design of the structural support of any load bearing building components. Contractor shall be responsible for any required temporary support or shoring during construction.
10. Contractor to inform owner upon discovery of any suspected hazardous materials.

DEMOLITION PLAN LEGEND:

DEMOLISHED WALL

EXISTING WALL

NEW WALL

AREA NOT IN WORK SCOPE

EXISTING TO REMAIN DOOR

DOOR TO BE REMOVED

NEW DOOR

Crosskey Architects LLC
Architecture Preservation Planning
750 Main Street, Hartford, CT 06103
T: (860)724-3000 F: (860)724-3013

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Drawn: MR / JG / TN
Date: 03/18/2026
Revisions

Demolition Plan

AD-100

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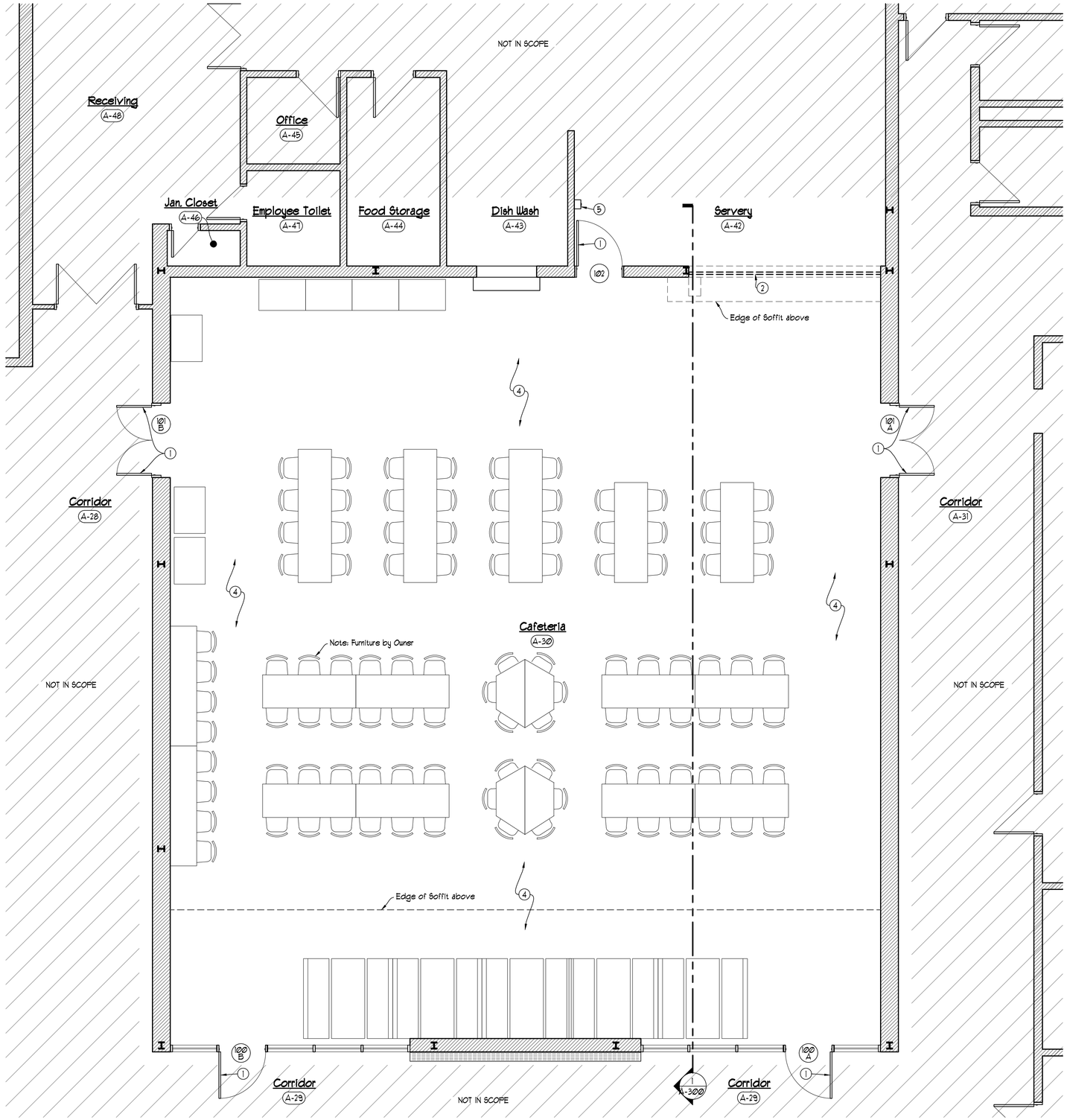

1 FLOOR PLAN
SCALE: 1/4"=1'-0"

NORTH

CONSTRUCTION KEY NOTES:

1. Provide new door & hardware in existing frame, refer to door schedule.
2. New overhead rolling security gate. Refer to structural drawings for masonry header and door schedule and details for jamb/head details.
3. Indicates area of brick which requires significant repointing.
4. Prep floor to recieve new flooring per manufacturer's requirements. Provide new flooring throughout
5. Provide controls for overhead door at location to be finalized by owner, but in approximate area of kitchen entry.

CONSTRUCTION GENERAL NOTES:

1. Contractor shall review all the drawings and specifications in the contract document set. The contractor shall coordinate all work shown in the contract document set with sub-contractors. The contractor shall provide a complete set of contract documents to all sub-contractors and related parties. Sub-contractors shall examine the contract document set and be familiar with any and all work that affects their scope of work.
2. G.C. to provide all demolition and dumpsters as is necessary to complete the work.
3. All wiring shall be run concealed. Notify architect of problem areas for direction prior to beginning work. Wire mold is not acceptable.
4. All materials are to be new unless noted otherwise and shall be installed per manufacturer's recommendations.
5. Provide firestopping at all duct pipe and other penetrations through rated firewalls and rated assemblies. Use UL rated sealants and caulking as manufactured by Dow, 3M or approved equal. Follow manufacturer's installation instructions. Contractor to provide submittal for review and approval.
6. All interior dimensions shown for existing construction is to the face of finished surface. Interior dimensions for new work shown are given from face of stud for stud walls, face of masonry for masonry walls, or centerline of beams/columns (UNO). All dimensions to be field verified. G.C. shall notify the Architect promptly with discrepancies, if any.
7. Contractor shall patch and repair any damages to existing components which are to remain.
8. Return all reusable items to be removed such as doors, overhead heaters, fans, lights, hardware, etc. to owner.

PLAN LEGEND

- Indicates new 1-Hr rated wall assembly
- Indicates new 2-Hr rated wall assembly
- Indicates new metal stud and gypsum wallboard construction
- Indicates new brick infill to match
- Indicates new CMU wall assembly
- Indicates new wood stud assembly with new 4" brick veneer
- Indicates new concrete foundation wall
- Indicates existing wall construction to remain in place.
- Indicates existing door to remain
- Indicates new door
- FEC — Indicates fire extinguisher cabinet
- Indicates handicap accessibility

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Drawn: MR / JG / TN
Date: 03/18/2026
Revisions

Floor Plan

A-100

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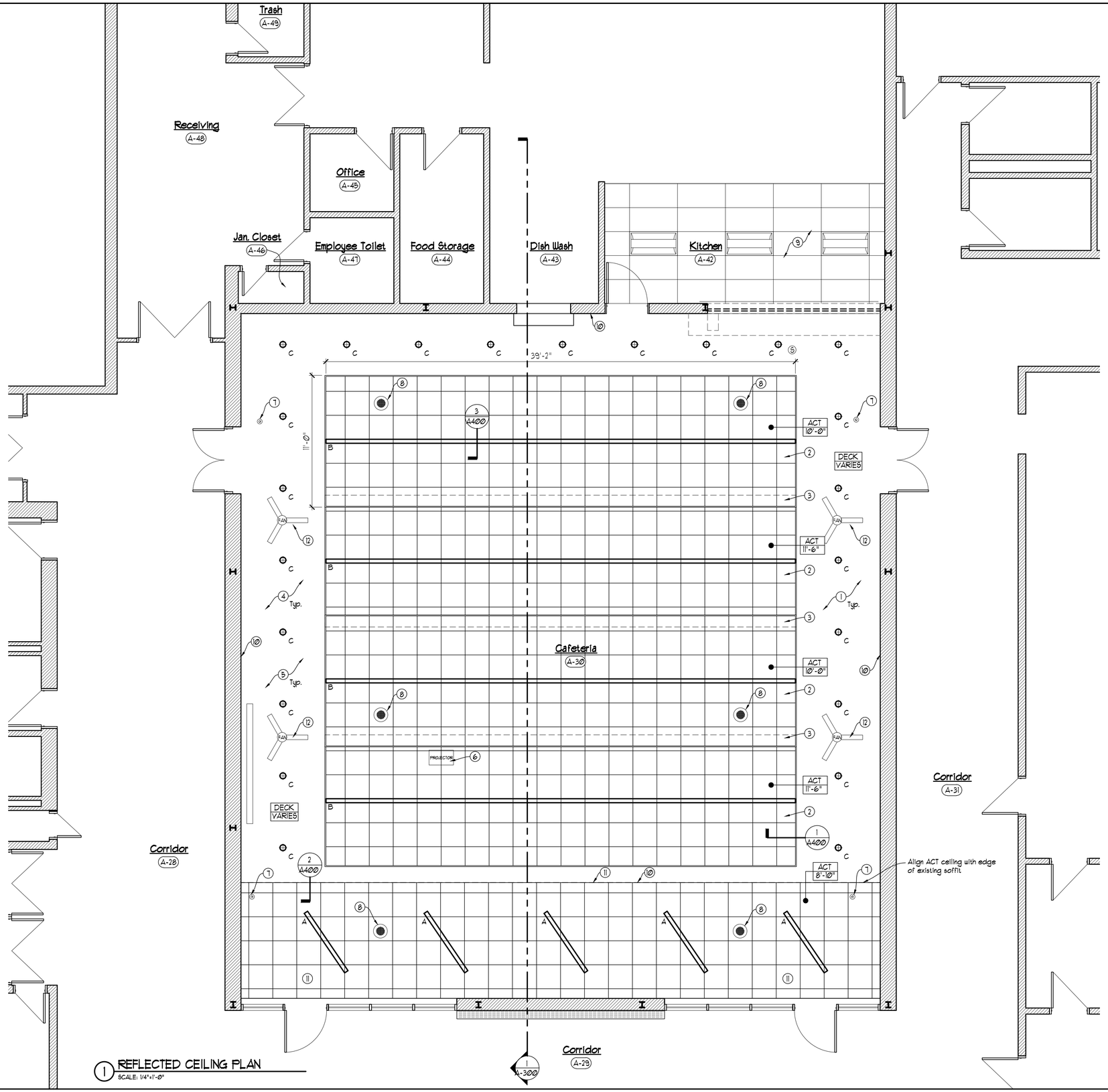

1 REFLECTED CEILING PLAN
SCALE: 1/4"=1'-0"

SCOPE NOTES:

1. Existing deck above to be exposed. Demo any unused cabling, wires, conduit, etc. Provide cable trays for any wiring to remain.
2. Provide new 2x2 ACT cloud. Basis of design: Armstrong Optima tegular ceiling tiles. Provide Axiom Classic 4" straight perimeter trim around entire perimeter of each cloud.
3. Stagger heights of ceiling clouds and overlap as shown as noted. See building section for more information.
4. Provide new painted finish at existing steel bar joists and all associated structural framing. See finish plan for color. Prep steel for paint by scraping, grinding, and priming as needed for a smooth paint finish.
5. Provide new K-13 spray system at exposed metal deck. Assume 3" thick application with a custom color.
6. Reinstall existing projector at ACT cloud. Coordinate height with re-install of existing projection screen. GC to coordinate final height of projector and screen in field with Owner.
7. Existing camera to remain in existing location. GC to coordinate w/ Owner's IT vendor as needed.
8. Reinstall existing PA speaker in new ACT tile. GC to coordinate w/ Owner's IT vendor as needed.
9. Existing ceiling and lighting to remain as is.
10. Paint upper portion of wall to match lower wall color. Assume new painted finish all walls at 8'-10" a.f.f. up to underside of structure
11. Replace in kind existing mechanical louvers. At accent wall locations prep and paint louver to match wall.
12. New ceiling fans. GC to coordinate final height in field with installed projector & screen heights. Provide stem extensions as required.

LIGHT FIXTURE SCHEDULE:

Type A: Linear pendant

Spec: Coronet, L94, Black finish, 6ft length, 35k, Standard 0-10V dimming

Type B: Recessed Slot fixture

Spec: Coronet, L9R4 Recessed, Custom length see RCP, 35k, Standard 0-10V dimming, White finish

Type C: 4" Cylinder Pendant fixture

Spec: Coronet, Drop Wide 4.0 Direct, Length: 8", 35K, Black Finish

FAN Ceiling Fan, coordinate w/ electrical drawings

GENERAL CEILING NOTES:

1. Drawings may not detail every condition or intersection of work. Where a detail is developed and referenced for a specific condition, the same or similar detail shall apply to identical or similar conditions elsewhere in the Project.
2. If plans and specifications provide conflicting information, then the strictest, most expensive interpretation shall apply.
3. Provide metal UL fire rated plumbing access panels as indicated on the Plumbing plans and details. Panels are to be 18"x 18" with keyed locks. Provide panels to access bathroom plumbing traps. Field verify locations. Provide submittal architect's review.
4. Refer to Mechanical, Plumbing and Electrical Drawings for additional information concerning ceiling installed items.

LEGEND:

GWB X'-X" — Indicates ceiling material; Indicates ceiling height

Indicates new GB soffit or new suspended GB ceiling assembly.

Indicates areas with suspended acoustical ceiling tile

Basis of design:

Armstrong Prelude XL grid
Armstrong Optima Tegular

Indicates existing exposed deck above

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LLC
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Drawn: MR / JG / TN
Date: 03/18/2026
Revisions

Reflected Ceiling Plan

AC-100

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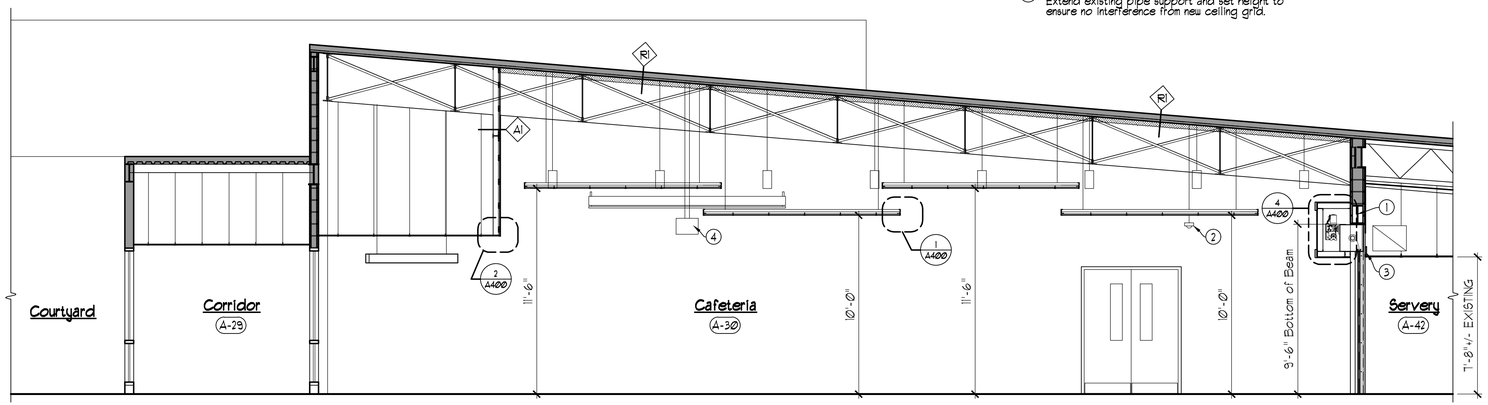
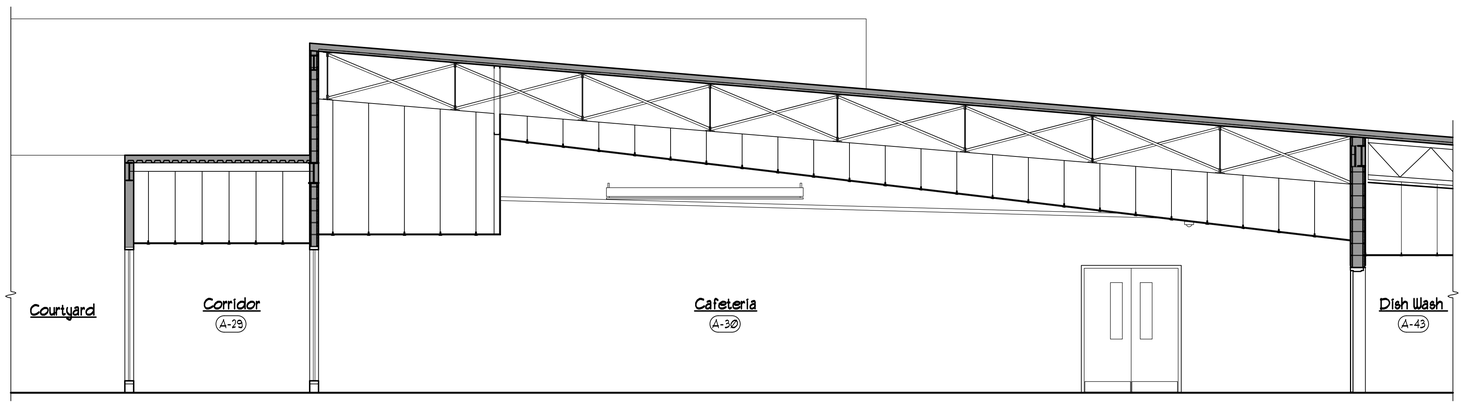
SECTION KEY NOTES:

1. New beam, refer to structural drawings
2. Re-install security camera on pole or suspension wires from ceiling
3. Install new 1x6 vertical ACT panel or trim to span gap between existing ceiling to remain and underside of overhead rolling door.
4. Re-install projector and case at lower height. Extend existing pipe support and set height to ensure no interference from new ceiling grid.



2 PROPOSED BUILDING SECTION

SCALE: 1/4"=1'-0"



1 EXISTING BUILDING SECTION

SCALE: 1/4"=1'-0"

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Architecture Preservation Planning
750 Main Street, Hartford, CT 06103
T: (860)724-3000 F: (860)724-3013

Mansfield Middle School Cafeteria

Street, Mansfield, CT

Town of Mansfield

NOT FOR CONSTRUCTION

Drawn: MR / JG / TN
Date: 03/18/2026
Revisions

Building Section

A-300

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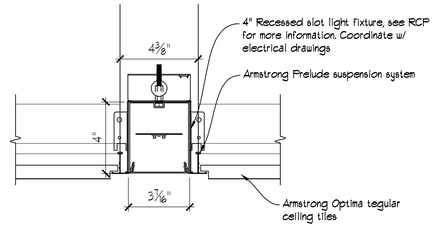
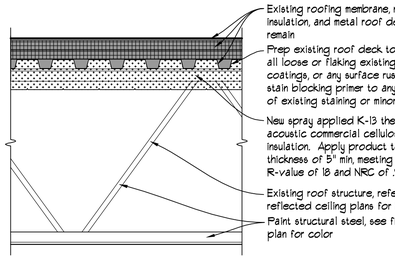
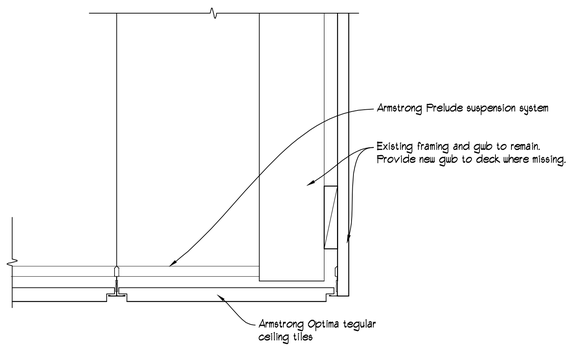


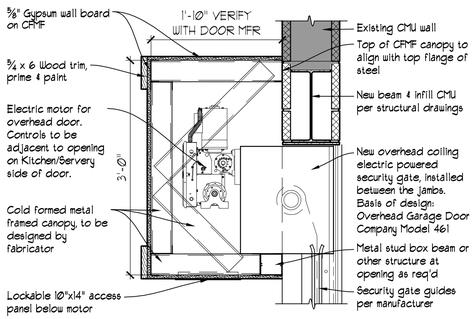
3 RECESSED SLOT LIGHT DETAIL
SCALE: 3"=1'-0"



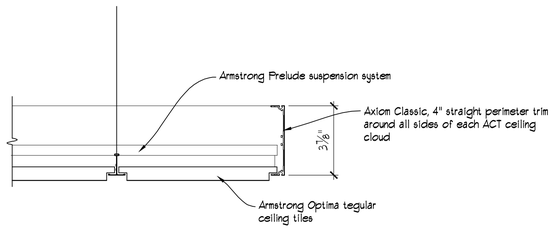
NON-RATED
CEILING/ROOF ASSEMBLY
SCALE: 1"=1'-0"
R1



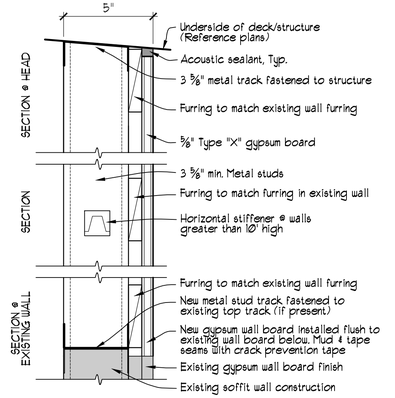
2 EXISTING SOFFIT DETAIL
SCALE: 3"=1'-0"



4 SHROUD CANOPY DETAIL
SCALE: 1"=1'-0"



1 AXIOM TRIM DETAIL
SCALE: 3"=1'-0"



NON-RATED
FURRED WALL ASSEMBLY
SCALE: 3"=1'-0"
A1

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750 Main Street, Hartford, CT 06103
T: (860)724-3000 F: (860)724-3013

Mansfield Middle School Cafeteria

Street, Mansfield, CT

Town of Mansfield

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Revisions

Construction Assemblies and Details

A-400

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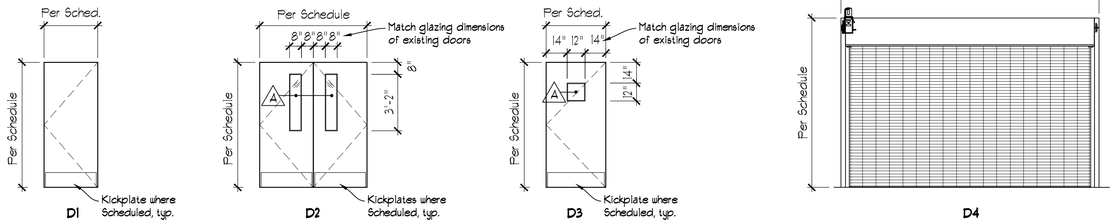
DOOR SCHEDULE

DOORS							FRAMES						HARDWARE			REMARKS	
NO.	LOCATION	SIZE	TYPE	MAT.	FIN.	ELEV.	ELEV.	MAT.	FIN.	JAMB	HEAD	SILL	FUNCTION	HARDWARE SET	KICKPLATE	RATING	NOTES
100A	CAFETERIA - SOUTHEAST	3'-6" x 7'-0" x 1 3/4" (V.I.F.)	SWING	WD	ST	D1	EXG	H.M.	PT	1/A-600	1/A-600		CLASSROOM	SET #2	YES	NR	
100B	CAFETERIA - SOUTHWEST	3'-6" x 7'-0" x 1 3/4" (V.I.F.)	SWING	WD	ST	D1	EXG	H.M.	PT	1/A-600	1/A-600		CLASSROOM	SET #2	YES	NR	
101A	CAFETERIA - NORTHEAST	(2) 2'-8" x 7'-0" x 1 3/4" (V.I.F.)	SWING	WD	ST	D2	EXG	H.M.	PT	1/A-600	1/A-600		CLASSROOM	SET #1	YES	NR	
101B	CAFETERIA - NORTHWEST	(2) 2'-8" x 7'-0" x 1 3/4" (V.I.F.)	SWING	WD	ST	D2	EXG	H.M.	PT	1/A-600	1/A-600		CLASSROOM	SET #1	YES	NR	
102	SERVERY	3'-4" x 7'-0" x 1 3/4" (V.I.F.)	SWING	WD	ST	D3	EXG	H.M.	PT	1/A-600	1/A-600		CLASSROOM	SET #3	YES	NR	
103	SERVERY	14'-4" x 9'-6" x VAR." (M.O.)	OHD	ALUM	FF	D4	D4	ALUM	FF	2#3/A-600	4/A-600		--	By Manufacturer	NO	NR	



DOOR ELEVATIONS

SCALE: 1/4"=1'-0"

DOOR NOTES

1. Door Schedule does not indicate quantities of doors. Doors with similar characteristics have been tagged with the same door tags. G.C. shall be responsible for quantifying the number of doors.
2. Refer to project specifications for hardware set specifications.
3. General Contractor shall review and verify all hardware functions with the Owner prior to submitting on hardware and placing order.
4. All doors scheduled to receive locking hardware shall be supplied with construction cores per Specifications. General Contractor shall be responsible for organizing a keying meeting with their hardware vendor and the Owner. Contractor shall supply and install final cores, and supply final keys per Specifications.
5. All door thresholds shall be handicap accessible with a 1:2 sloped bevel at each edge, except at sliding patio doors, U.N.O.
6. All door latches shall be designed for handicap accessibility. Latches, handles, and locks to be in compliance with building and applicable accessibility code and not require tight grasping, pinching, or twisting of the wrist as well as have a maximum applied force of 5 pounds to activate.
7. Provide tactile signage to read "Exit" on egress side of stairway entry doors.
8. Provide kick-plates on push side only for all doors scheduled to receive kick-plates.
9. All door operating hardware shall be mounted within 48" above finish floor, (max.).
10. Provide integral weather-stripping, thresholds and sweeps at all exterior doors and frames.
11. Provide door silencers at all H.M. door frames not receiving weather or smoke seals/ gasketing.
12. Operating force to open doors shall not exceed five (5) pounds.
13. All doors to be solid core wood with stain-grade finish.
14. All hollow metal frames at doors at masonry openings shall be fully welded.
15. Where openings are required and/or indicated to have fire or acoustic resistance rating, door, frame, hardware and accessories shall act as a single unit to provide the rating required. Reference construction assemblies for partition information.
16. All fire rated doors shall be self-closing.
17. Coordinate door undercut requirements with mechanical drawings and specifications.
18. Doors scheduled to receive peep holes shall maintain stated rating.
17. Coordinate electrified hardware with suppliers and low voltage vendors.
18. Coordinate wall assembly thickness at all door frames to determine throat depth.

DOOR SCHEDULE ABBREVIATIONS

ALF	Aluminum Storefront Frame	HMF	Hollow Metal Frame
ALU	Aluminum	IGHM	Insulated Galvanized Hollow Metal
AL/GL	Aluminum and Glass	IHM.	Insulated Hollow Metal
EXG	Existing	OHD	Roll-Up Overhead Door
F.F.	Factory Finish	P.H.	Pre-Hung
FG	Fiberglass	PT	Paint
GHM	Galvanized Hollow Metal	S.C.	Solid Core Wood
H.C.	Hollow Core	ST	Stain
H.M.	Hollow Metal	WD	Wood

DOOR HARDWARE SETS

Set #1

2.0 Sets Hinges	661HD X DOOR HEIGHT	689	Best Hardware
1.0 Exit Device	20I LBR	630	Precision Hardware
1.0 Exit Device	208 LBR X 4928D	630	Precision Hardware
1.0 Rim Cylinder	As Req'd	626	Best Hardware
2.0 Door Closer	EHD8016 SPA	689	Best Hardware
2.0 Protection Plate	FP0050 8" X 1" LDW B4E CSK	US32D	Architectural Builders Hardware
2.0 Door Stop	AB409/AB441H As Required	US26D	Architectural Builders Hardware
2.0 Silencers	AB60B-RKW	Grey	Architectural Builders Hardware

Set #2

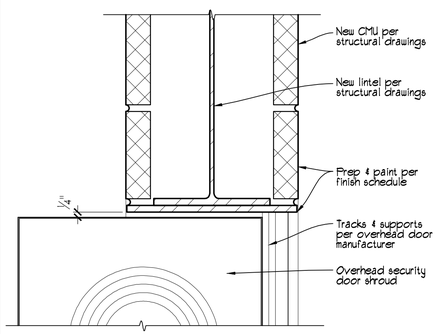
1.0 Sets Hinges	661HD X DOOR HEIGHT	689	Best Hardware
1.0 Exit Device	108 LBR X 4928D	630	Precision Hardware
1.0 Rim Cylinder	As Req'd	626	Best Hardware
1.0 Door Closer	EHD8016 SPA	689	Best Hardware
1.0 Protection Plate	FP0050 8" X 2" LDW B4E CSK	US32D	Architectural Builders Hardware
1.0 Door Stop	AB409/AB441H As Required	US26D	Architectural Builders Hardware
3.0 Silencers	AB60B-RKW	Grey	Architectural Builders Hardware

Set #3

1.0 Sets Hinges	661HD X DOOR HEIGHT	689	Best Hardware
1.0 Classroom Lock	9K-7R 14-R	626	Best Hardware
1.0 Door Closer/Holder	EHD8016 FH90 Full Side Mount	689	Best Hardware
1.0 Protection Plate	FP0050 8" X 2" LDW B4E CSK	US32D	Architectural Builders Hardware
1.0 Door Stop	AB409/AB441H As Required	US26D	Architectural Builders Hardware
3.0 Silencers	AB60B-RKW	Grey	Architectural Builders Hardware

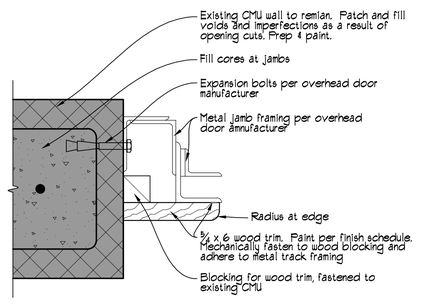
GLAZING SCHEDULE

TYPE	DESCRIPTION	USE LOCATIONS
A	1/4" TEMPERED GLASS	INTERIOR DOOR VISION PANELS AND SIDELIGHTS
B	NOT USED	



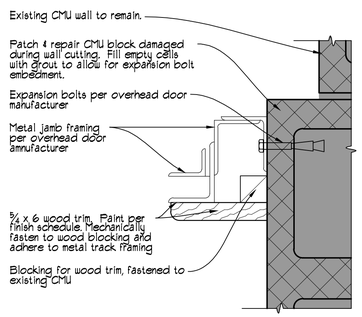
4 DOOR JAMB/HEAD DETAIL

SCALE: 3"=1'-0"



3 DOOR JAMB/HEAD DETAIL

SCALE: 3"=1'-0"



2 DOOR JAMB/HEAD DETAIL

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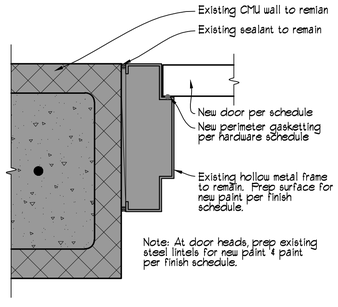

1 DOOR JAMB/HEAD DETAIL

SCALE: 3"=1'-0"

Crosskey Architects LLC
Architecture Preservation Planning
750 Main Street, Hartford, CT 06103
T: (860)724-3000 F: (860)724-3013

Mansfield Middle School Cafeteria

Street, Mansfield, CT

Town of Mansfield

Street, Mansfield, CT

NOT FOR CONSTRUCTION

Drawn: MR / JG / TN

Date: 03/18/2026

Revisions

Door Schedule & Details

A-600

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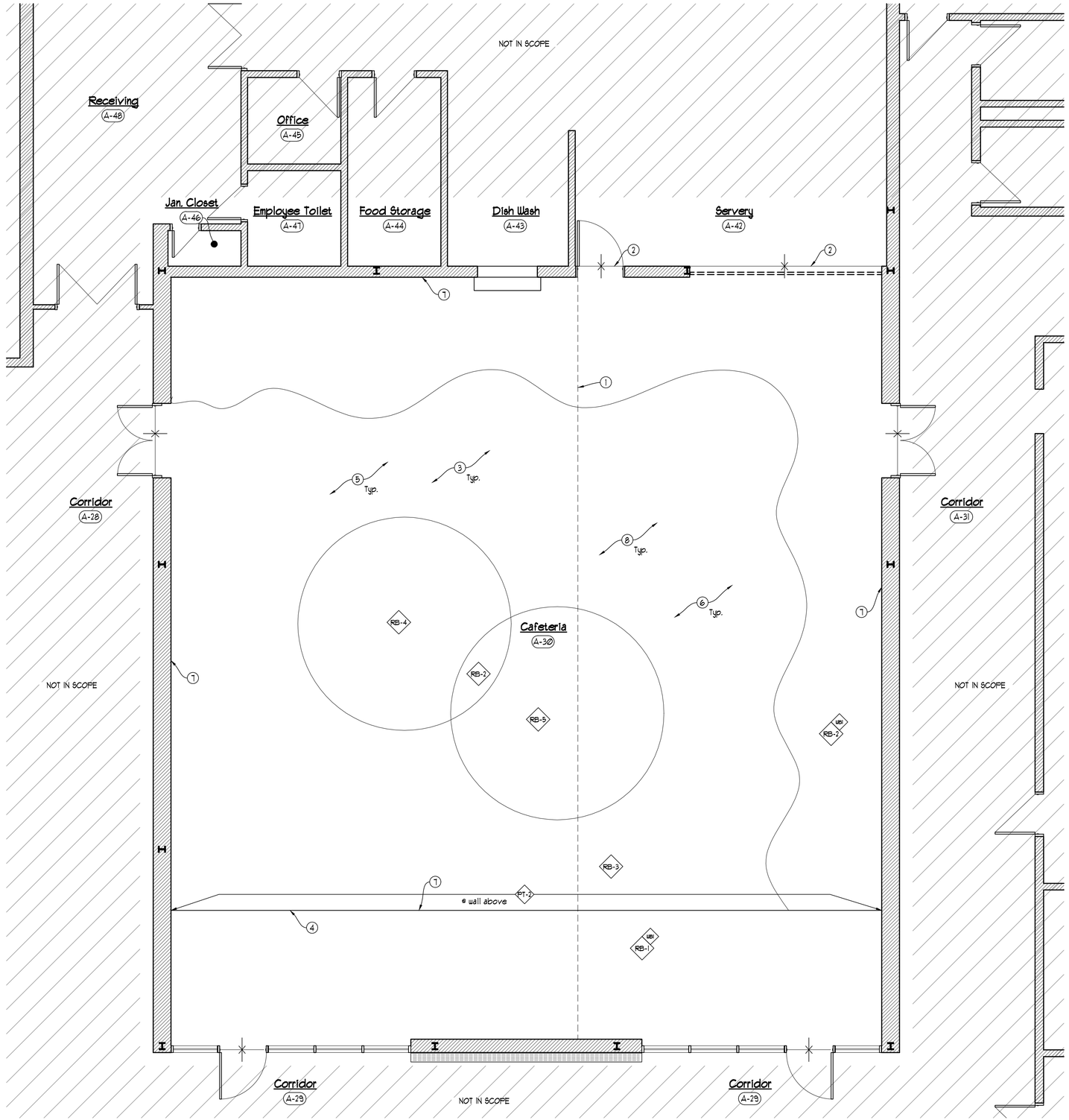

1 FLOOR PLAN
SCALE: 1/4"=1'-0"

FINISH SCHEDULE:

PAINT

PT-1	Benjamin Moore, Eggshell (General walls) Color: Match existing
PT-2	Benjamin Moore, Eggshell (Accent wall) Color: TBD
PT-3	Benjamin Moore, Satin (Structural steel) Color: TBD
PT-4	Benjamin Moore, Semi-gloss (HM Trim) Color: TBD

STAIN

ST-1	General Finishes stain (wood doors) Oil based Gel Stain, Color: TBD Oil based Polyurethane topcoat

RUBBER
(Homogeneous Thermoset Rubber Sheet flooring)

RB-1	Mannington, ColorFields, Color: TBD
RB-2	Mannington, ColorFields, Color: TBD
RB-3	Mannington, ColorFields, Color: TBD
RB-4	Mannington, ColorFields, Color: TBD
RB-5	Mannington, ColorFields, Color: TBD

WALL BASE

WB-1	Johnsonite, Traditional, 4", Color: TBD

FINISH KEY NOTES:

1. Fill existing crack in concrete slab with two part epoxy and grind down to be flush.
2. Existing flooring to remain. Provide new rubber transition strip along edge of demolished wall.
3. Paint all existing block walls all the way to deck above. Prep walls to ensure proper paint adhesion.
4. Align edge of RB-1 with edge of soffit above.
5. Paint existing steel bar joists, all associated steel structure and all pipes/conduit/etc. above. See legend for color.
6. Final colors/pattern to be determined. GC to follow all manufacturers requirements for installation. Heat weld all seams.
7. Paint upper portion of walls to match lower wall color. Assume new painted finish all walls at 8'-10" a.f.f. up to underside of structure.
8. Existing murals to remain

FINISH NOTES:

1. Coordinate all floor prep and adhesive requirements with flooring manufacturer recommendations.
2. Any wall to receive wall covering to receive a level 4 drywall finish.
3. Any wall to receive vinyl graphic to receive a level 5 drywall finish.
4. Provide schluter system transitions between dissimilar flooring materials.
5. Interior paint and stain colors are to be selected by Architect. All interior wood doors are to be stained. All metal doors and frames are to be painted.
6. Coordinate ceiling finish and heights with RCP.
7. Paint used in stairwells, corridors, entry lobbies and other public areas shall be Class A or Class B with a flame spread of 0-75.
8. Floor finishes in stairwells, lobbies, corridors, etc. shall be Class I or Class II.
9. Flooring Contractor shall be responsible for furnishing and installing an appropriate adhesive system for adhered flooring based on finish flooring manufacturer's requirements.

LEGEND:

- Indicates flooring transition
- Indicates flooring install direction
- FT-1 — Indicates flooring finish
- WT-1 — Indicates wall finish (Assume full height u.n.o.)
- WB1 / FT-1 — Indicates wall base per floor finish

Crosskey Architects LLC
Architecture Preservation Planning
750 Main Street, Hartford, CT 06103
T: (860)724-3000 F: (860)724-3013

Mansfield Middle School Cafeteria

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Revisions

Finish Plan

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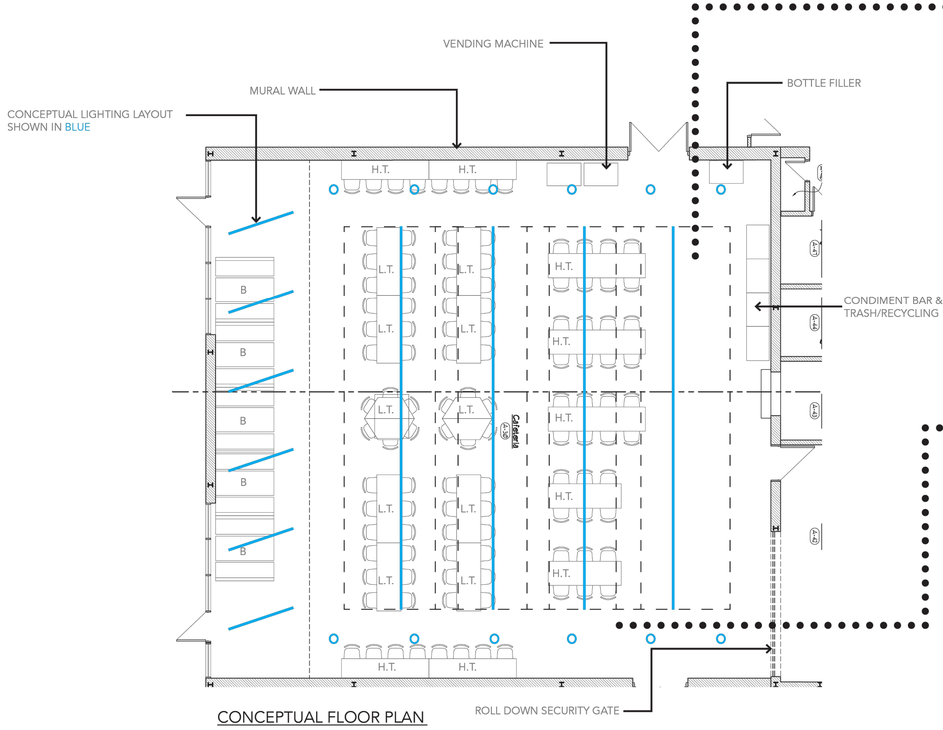
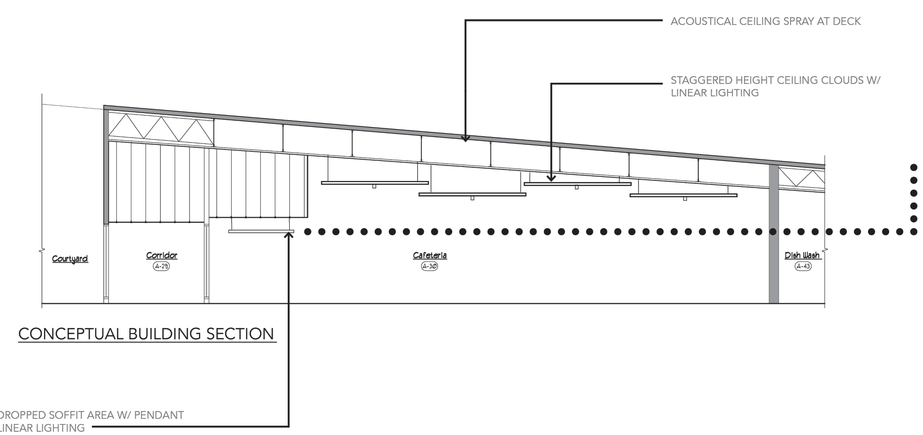
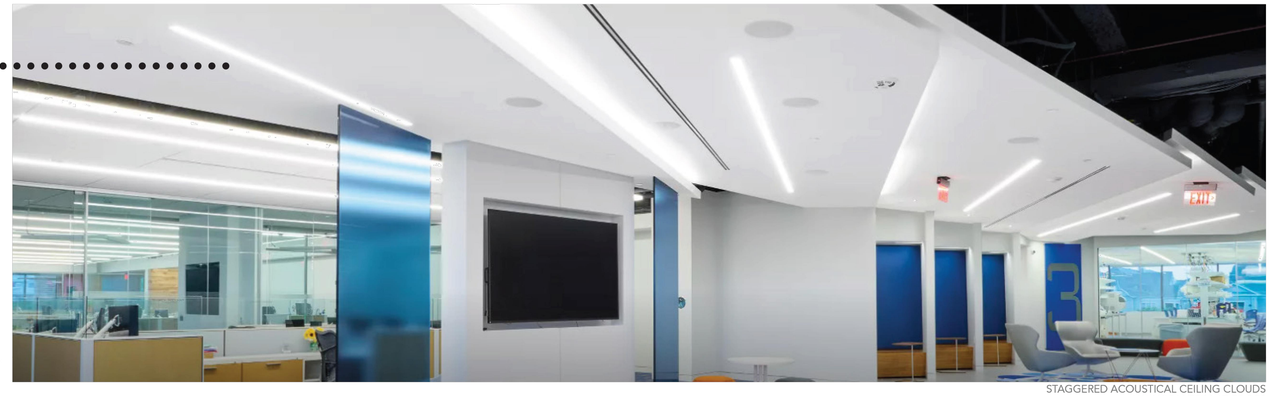


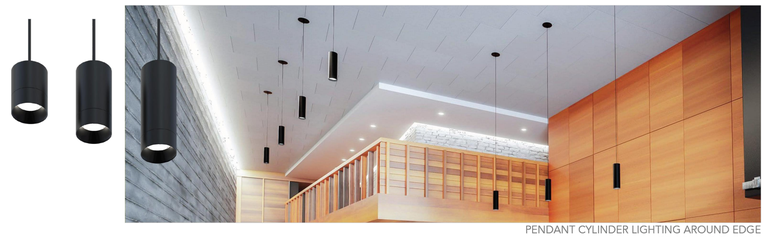
CONCEPTUAL FLOOR PLAN



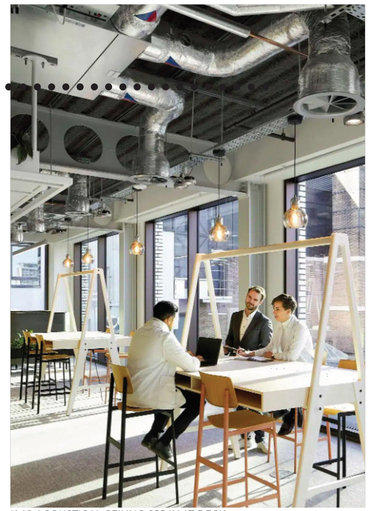
CONCEPTUAL BUILDING SECTION



STAGGERED ACOUSTICAL CEILING CLOUDS
W/ AXIOM TRIM AT EDGES



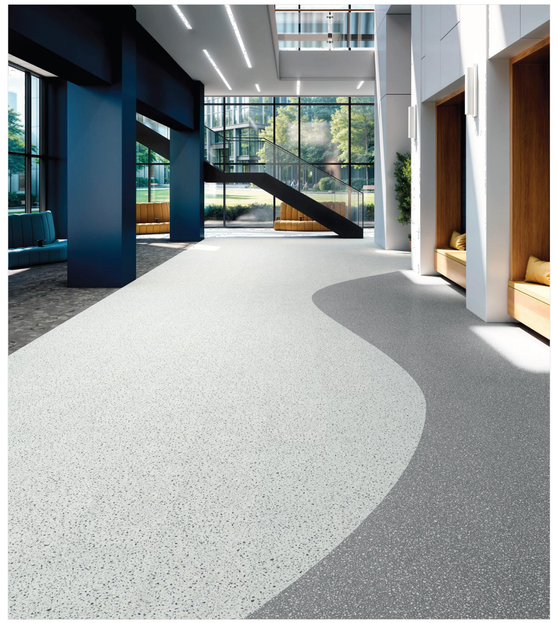
PENDANT CYLINDER LIGHTING AROUND EDGE
OF CEILING CLOUDS



K-13 ACOUSTICAL CEILING SPRAY AT DECK

ROLL DOWN SECURITY GRILLE

PENDANT LINEAR LIGHTING AT DROPPED
ACT CEILING



LVT FLOORING TERRAZZO LOOK,
TWO CONTRASTING PATTERNS OR COLORS,
FLOWING ABSTRACT PATTERN

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LLC
Architecture Preservation Planning
750 Main Street, Hartford, CT 06103
T: (860)724-3000 F: (860)724-3013

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Revisions

Conceptual
Design Board

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General Specifications

All work performed and materials installed shall be in strict accordance, as a minimum standard, with all local, state and federal codes, in effect at the time of construction.

Prior to performing any work or ordering any materials, the Contractor shall be responsible for verifying all conditions and dimensions. The Contractor shall further be responsible for advising the designer of any discrepancies and/or conflicts between the existing conditions and the Project Documents prior to proceeding with the work, or related work, in question.

Contractor shall be responsible for familiarizing himself with all Contract Documents, field conditions and dimensions and confirming that the work may be accomplished as shown, prior to proceeding with construction. Should there be any question regarding Contract Documents, existing conditions and/or design intent, the Contractor shall be responsible for obtaining a clarification from the Designer prior to proceeding with the work, or related work, in question.

Install all manufactured items, materials and equipment in strict accordance with the manufacturer's recommended specifications, except in the case where Contract Documents are more stringent.

Contractor shall be responsible for familiarizing himself with the Project Schedule and deadlines. The Contractor shall further be responsible for advising the Designer of all long lead time items affecting the Project Schedule and shall submit order confirmations and delivery dates. All Contractor or Supplier requests for substitutions of specified items shall be submitted in writing, accompanied by the alternative product information, to the Designer. Substitutions will be considered only if it does not sacrifice quality, appearance and function. Under no circumstances will the Designer be required to prove that a product proposed for substitution is or is not of equal quality to the product specified.

Installation of all selected materials shall be complete in all respects prior to final acceptance, unless otherwise agreed to in writing. Any miscellaneous items or materials not specifically noted, but required for the proper installation shall be furnished by the Contractor(s) at no cost to the owner. The Contractor(s) shall furnish to Property manager all warranties and guarantees required at the conclusion of work.

01 10 10 - GENERAL REQUIREMENTS

1. AIA Document A201: General Conditions of the Contract for Construction shall be a part of this specification.
2. Provide all labor materials and equipment necessary to complete the work shown on the drawings and specified herein.
3. Utilities and Services
   a. Trash removal for construction shall be provided by the Contractor.
   b. Contractor will provide temporary utilities as required during construction.
4. General Contractor to protect existing materials to remain.
5. General Contractor to schedule work so as to avoid disruption of other building operations.
6. All materials shown are new unless noted otherwise.

01 33 00 - SUBMITTALS TO ARCHITECT & OWNER

Schedule Submittal Required for: (six copies)
- Doors & Hardware including cuts
- Paint
- Acoustic Ceiling Tiles & Grid
- Overhead Coiling Door
- Flooring
- Spray-Applied Ceiling Acoustic Material

Samples Submittals Required for (two samples)
- ACT Ceiling system (pad/grid)
- Paint draw-downs
- Flooring
- Vinyl base

Design submittals
- Flooring Layout
- Structural Steel Shop Drawings

01 50 00 - CONSTRUCTION FACILITIES & TEMPORARY CONTROLS

Building Access: Access to fit-up space for personnel & materials shall be coordinated with the building manager
Work Area: Pick up/clean daily.

01 74 19 - DISPOSAL

Demolition/Waste Materials: Dispose of off site. Provide a dumpster at rear loading dock of building.
Reusable Materials:
Return all existing materials removed which are reusable such as hardware, doors & frames, lighting, fixtures, A/V equipment, etc, to Building Manager.

02 41 19 - DEMOLITION

Provide demolition of existing materials as required to complete the scope of work shown on the drawings.

04 22 00 - CONCRETE UNIT MASONRY

Materials: Concrete masonry units to be structural in nature. Provide special shapes as needed. Portland cement to conform to ASTM C 150, Type I or II. Hydrated Lime to conform to ASTM C 207, Type S. Reinforcement bars to conform to ASTM A615 or ASTM A 996.
Installation: Tooth in CMU where possible. Do not place fill grouting until entire height of masonry to be grouted has attained strength to resist grout pressure. Match grout dimensions to existing. After mortar has thoroughly set and cured, clean exposed masonry.

07 21 29 - SPRAY-APPLIED ACOUSTIC MATERIALS

Spray-Applied Cellulose: Material shall be Class 1 Class A per ASTM E 84/UL 723 and be UL Greenguard Gold Certified. Min R-value per inch to be 3.7, bond strength greater than 150 PSF per ASTM E 736. Installation to achieve NRC of .90 or greater. Installer to be licensed by manufacturer. Prep surfaces by removing all loose coatings and surface rust, apply stain-blocking primer as needed. Follow all instructions/requirements by manufacturer. Color to be custom selected by owner. Basis of design: K-13 by International Cellulose Corporation.

08 14 00 - DOORS

Interior Wood Doors: Solid core flush birch or maple doors to match existing with UL ratings where required.
Interior Door Frames: Hollow metal frames, 16 ga. shop primed with welded joints. Provide appropriate UL labeled frames as required by code.

08 33 26 - UPWARD COILING SECURITY GRILLES

Basis of Design: The Overhead Door Company Model 670 with electric powered motor operator model R5X.
Submittals: Provide submittals on product data, shop drawings produced by manufacturer, and warranty information.
Finishes: Provide anodized finish, color TBD by owner
Installation: Field measure prior to ordering, contractor responsible for all field dimensions & prep for plumb & level surrounding construction. Install per manufacturer's instructions. Provide & connect electrical service as needed, exact location of controls TBD by owner. Adjust & tune as needed.

08 71 00 - HARDWARE

Hardware Requirements: (Review with owner & Building Manager prior to purchase).

Misc. Hardware:
- Silencers: All frames
- Wall stops: All Doors

Finish: Consult with owner & Building Manager
- Match existing

Keying: Coordinate with Tenant & Building Manager

Hardware Series/Style:
Manufacturer: Per schedule
Style: Lever Handle

All hardware shall be heavy duty commercial grade. Comply with UL for all fire openings and ANSI A117.1 for handicapped accessibility.

Hinges: Shall be five knuckle, full mortise, ball bearing, with non rising loose pin and button tip.

Closers: Closers on all doors with hold opens. Full rack and pinion type with adjustable spring power and backcheck.

08 80 00 - GLAZING

Requirements: Safety glazing to meet ANSI Z97.1 and/or ASTM C1172. All doors to receive laminated safety two-ply monolithic glass bonded with polyvinyl butyral interlayer by heat and pressure.

09 21 16 - DRYWALL/METAL STUDS:

Cold Formed Metal Framing: Cold formed metal stud framing design is a delegated design scope. Contractor to engage a Design Professional licensed in the State of Connecticut to provide stamped and sealed shop drawings. Shop drawings shall include, but not be limited to: stud depth, stud gauge, stud spacing, typical framing details, and project specific details.

Fasteners: Bugle head type 'S' drywall screws for metal studs.

Gypsum Board: 1/2" or 5/8" Type SW/tapered. Comply with ASMT C36 or ASTM C1396

Gypsum Board Cut at Floor: Provide clean sharp gypsum board edge at base of gypsum board walls - no tagged edges.

Joint Treatment: Provide three coat joint treatment at all exposed board walls. Take vertical joint and screw head treatment to concrete slab.

Accessories: Provide plastic strippable "T" where gypsum board abuts dissimilar materials. Provide metal corner bead at all outside gypsum board corners.

09 51 00 - ACOUSTICAL SUSPENDED CEILINGS

Acoustical Ceiling Tiles: Armstrong 24"x24", 15/16" Optima tegular ceiling tiles, color to be selected by owner from manufacturer's standard range of colors. Meets or exceeds Class A fire rating and NRC of .90 or greater
Ceiling Grid: Armstrong, white 2 x 2 Axiom suspended grid system and accessories. Trim: 4" Axiom Classic pre-finished aluminum perimeter trim.
Ceiling Height: As noted

09 65 16 - THERMOSET RUBBER FLOORING

Materials: Basis of Design: Mannington ColorFields sheet flooring, Ø.118" (3mm) thick, smooth finish.
Warranty: Provide 10 year Limited Commercial warranty
Installation: Follow manufacturer's installation instructions for welding and adhesive requirements. Use MR-121, MR-125, or MR-911 adhesives.

09 91 00 - PAINTING

Items to be Painted/Finished:
- Drywall partitioning
- Concrete Masonry Unit Walls
- Doors & frames

Gypsum Board (new-unpainted): 2 coats Latex enamel "Eggshell" finish. Over one coat for alkyd primer.
Color: Consult with owner

Gypsum Board (existing-painted): 1 coat Latex enamel "Eggshell" finish. Color: Consult with owner

Hollow Metal Doors & Frames: 2 coats latex enamel finish, over one coat of alkyd primer, sheen to match existing.
Color: To be selected by Owner

Wood Doors & Misc. trim: 2 coats General Finishes stain, 2 coats of General Finishes polyurethane
Stain color: Consult with tenant

15200 - HVAC (Design Build):
General: All work to be provided in accordance w/ all applicable codes. Maintain operation of current systems.

16400 - TELEPHONE & DATA
General Contractor to maintain in place all A/V and data outlets and wiring.

Crosskey Architects LLC
Architecture Preservation Planning
750 Main Street, Hartford, CT 06103
T: (860)724-3000 F: (860)724-3013

Mansfield Middle School Cafeteria
Street, Mansfield, CT
Town of Mansfield

NOT FOR CONSTRUCTION

Drawn: MR / JG / TN
Date: 03/18/2026
Revisions

Building Section

A-700

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GENERAL

A. THE FOLLOWING NOTES APPLY TO ALL STRUCTURAL DRAWINGS. NOTES SHALL APPLY UNLESS OTHERWISE INDICATED BY STRUCTURAL DRAWINGS OR SPECIFICATIONS.
B. WHERE A DETAIL, TYPICAL DETAIL, SECTION, TYPICAL SECTION OR PLAN NOTE IS SHOWN FOR ONE CONDITION, IT SHALL APPLY FOR ALL SIMILAR OR LIKE CONDITIONS UNLESS NOTED OTHERWISE.
C. ALL DESIGN AND CONSTRUCTION IS BASED ON AND SHALL BE IN ACCORDANCE WITH THE CONNECTICUT STATE BUILDING CODE, 2022 EDITION. ALL REFERENCED STANDARDS SHALL BE OF THE EFFECTIVE DATE NOTED IN THE CONTROLLING BUILDING CODE.
D. NO PROVISION OF ANY REFERENCED STANDARD SPECIFICATION, MANUAL OR CODE (WHETHER OR NOT SPECIFICALLY INCORPORATED BY REFERENCE IN THE CONSTRUCTION DOCUMENTS) SHALL BE EFFECTIVE TO CHANGE THE DUTIES AND RESPONSIBILITIES OF OWNER, CONTRACTOR, ENGINEER, SUPPLIER, OR ANY OF THEIR CONSULTANTS, AGENTS, OR EMPLOYEES FROM THOSE SET FORTH IN THE CONSTRUCTION DOCUMENTS. NOR SHALL IT BE EFFECTIVE TO ASSIGN TO THE STRUCTURAL ENGINEER OF RECORD OR ANY OF THE STRUCTURAL ENGINEER OF RECORD'S CONSULTANTS, AGENTS, OR EMPLOYEES ANY DUTY OR AUTHORITY TO SUPERVISE OR DIRECT THE FURNISHING OR PERFORMANCE OF THE WORK OR ANY DUTY OR AUTHORITY TO UNDERTAKE RESPONSIBILITIES CONTRARY TO THE PROVISIONS OF THE CONSTRUCTION DOCUMENTS.
E. CONSTRUCTION DOCUMENTS INCLUDE, BUT ARE NOT LIMITED TO, THE STRUCTURAL DOCUMENTS (DRAWINGS AND SPECIFICATIONS), BUT DO NOT INCLUDE SHOP DRAWINGS, VENDOR DRAWINGS, OR MATERIAL PREPARED AND SUBMITTED BY THE GENERAL CONTRACTOR.
F. CONSTRUCTION DOCUMENTS SHALL GOVERN IN THE EVENT OF A CONFLICT WITH THE CODE OF PRACTICE OR SPECIFICATIONS OF ACI, PCI, AISC, SJI OR OTHER STANDARDS. WHERE A CONFLICT OCCURS WITHIN THE CONSTRUCTION DOCUMENTS, THE STRICTEST REQUIREMENT SHALL GOVERN.
G. THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SITE CONDITIONS AND NOTIFY ARCHITECT/STRUCTURAL ENGINEER OF RECORD OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH WORK. FOR DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS, SEE ARCHITECTURAL DRAWINGS.
H. DO NOT SCALE FOR DIMENSIONS NOT SHOWN ON DRAWINGS. SEND WRITTEN REQUEST FOR INFORMATION TO THE ARCHITECT FOR DIMENSIONS NOT PROVIDED.
I. THE STRUCTURE SHOWN ON THESE DRAWINGS IS SELF-SUPPORTING ONLY IN ITS COMPLETED FORM. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING THE DESIGN, ADEQUACY, SAFETY, AND STABILITY OF TEMPORARY ERECTION BRACING AND SHORING.
J. NO PROVISIONS HAVE BEEN MADE IN THE DESIGN FOR THE SUPPORT OF A CONCENTRATED LOAD FROM PLUMBING, MECHANICAL OR HVAC EXCEPT AS SHOWN ON THE DRAWINGS.
K. THE GENERAL CONTRACTOR SHALL COORDINATE ALL SIZES AND LOCATIONS OF FLOOR, ROOF, AND WALL PENETRATIONS WITH MECHANICAL AND ARCHITECTURAL DRAWINGS. ALL PENETRATIONS NOT SHOWN ON STRUCTURAL DRAWINGS MUST BE APPROVED BY THE STRUCTURAL ENGINEER OF RECORD UNLESS NOTED OTHERWISE.
L. THE GENERAL CONTRACTOR SHALL VERIFY THAT MISCELLANEOUS FRAMING SHOWN ON THE STRUCTURAL DRAWINGS FOR MECHANICAL EQUIPMENT, OWNER-FURNISHED ITEMS, PARTITIONS, ETC. IS CONSISTENT WITH THE REQUIREMENTS OF SUCH ITEMS.
M. ELEVATIONS SHOWN ARE TO TOP OF FOUNDATIONS, SLABS OR STEEL BEAMS UNLESS NOTED OTHERWISE.
N. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES IN ORDER TO COMPLY WITH THE CONSTRUCTION DOCUMENTS.
O. THE GENERAL CONTRACTOR HAS SOLE RESPONSIBILITY TO COMPLY WITH ALL APPLICABLE OSHA REGULATIONS.
P. ALL TESTING SHALL BE PAID FOR BY THE OWNER (CONTRACTOR SHALL COORDINATE WITH OWNER TO ENSURE THAT COST OF TESTING IS ACCURATE AND PRESENTED TO OWNER WITH CONSTRUCTION COSTS).

EXISTING CONDITIONS

A. THE GENERAL CONTRACTOR SHALL SURVEY THE EXISTING STRUCTURE TO DETERMINE THAT ALL MODIFICATIONS AS INDICATED IN THE CONSTRUCTION DOCUMENTS ARE FEASIBLE AND PRACTICAL AND SHALL REPORT ANY DISCREPANCIES OR UNUSUAL CONDITIONS TO THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD.
B. WHEN EXISTING FRAMING IS SHOWN ON THE STRUCTURAL DRAWINGS IT IS FOR REFERENCE ONLY AS IT RELATES TO THE STRUCTURAL SCOPE OF WORK. THE STRUCTURAL DRAWINGS ARE NOT INTENDED TO BE A COMPREHENSIVE REPRESENTATION OF THE AS-BUILT EXISTING STRUCTURE.
C. WHERE PORTIONS OF THE NEW CONSTRUCTION ARE INDICATED TO FIT TO EXISTING CONSTRUCTION, THE GENERAL CONTRACTOR SHALL VERIFY DIMENSIONS OF EXISTING CONSTRUCTION BY FIELD MEASUREMENTS BEFORE SUBMISSION OF SHOP DRAWINGS AND FABRICATION.
D. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES IN THE AREA OF CONSTRUCTION THAT MIGHT BE AFFECTED BY OR OTHERWISE INTERFERE WITH INSTALLATION OF NEW WORK. THIS INCLUDES THOSE THAT MIGHT BE DAMAGED BY NEW FOUNDATION OR OTHER WORK, AND THOSE WHOSE PRESENCE MIGHT LEAD TO DAMAGE TO THE NEW WORK (SUCH AS DIFFERENTIAL SETTLEMENT, ETC.).

SPECIAL INSPECTIONS

A. SPECIAL INSPECTIONS ARE REQUIRED IN ADDITION TO THE INSPECTIONS SPECIFIED IN SECTION 110 OF THE BUILDING CODE.
B. ALL SPECIAL INSPECTIONS SHALL BE IN ACCORDANCE WITH DIVISION 01 SPECIFICATIONS.

SHOP DRAWINGS AND DEFERRED SUBMITTALS

A. STRUCTURAL DRAWINGS INDICATE TYPICAL AND CERTAIN SPECIFIC CONDITIONS ONLY. SHOP DRAWINGS SHALL DETAIL ALL CONDITIONS IN ACCORDANCE WITH SPECIFIED STANDARDS AND THE SPECIFIC REQUIREMENTS OF THIS PROJECT AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
B. THE GENERAL CONTRACTOR SHALL SUBMIT, AS REQUIRED, PRINTS OR ELECTRONIC COPIES, AS DIRECTED, OF SHOP DRAWINGS FOR ALL FABRICATED MATERIALS TO ARCHITECT FOR REVIEW.
C. REVIEW OF SHOP DRAWINGS BY THE ARCHITECT/STRUCTURAL ENGINEER OF RECORD DOES NOT RELIEVE THE GENERAL CONTRACTOR OF THE SOLE RESPONSIBILITY FOR ERRORS AND OMISSIONS ASSOCIATED WITH THE PREPARATION OF THOSE SHOP DRAWINGS.
D. REPRODUCTION/DUPLICATION OF THE STRUCTURAL DRAWINGS FOR USE IN THE PRODUCTION OF SHOP DRAWINGS IS PROHIBITED, UNLESS NOTED OTHERWISE. IN THE EVENT THAT THE GENERAL CONTRACTOR OR SUBCONTRACTOR ELECTS TO PRODUCE SHOP DRAWINGS BY COPYING ELECTRONIC OR PAPER COPIES OF THE STRUCTURAL DRAWINGS, THE CONTRACTOR SHALL REQUEST FROM THE STRUCTURAL ENGINEER OF RECORD A SHOP DRAWING WAIVER ALONG WITH THE SPECIFIC SHEETS REQUIRED. SIGNATURE OF THE WAIVER BY THE GENERAL CONTRACTOR, ALONG WITH PAYMENT OF A FEE TO THE STRUCTURAL ENGINEER OF RECORD WILL BE REQUIRED. THE GENERAL CONTRACTOR SHALL CONTINUE TO ASSUME RESPONSIBILITY FOR ERRORS, OMISSIONS AND COORDINATION REQUIRED FOR SHOP DRAWING PRODUCTION, REGARDLESS OF THE USE OF COPIES OF THE STRUCTURAL DRAWINGS FOR SHOP DRAWING PRODUCTION.

STRUCTURAL STEEL

A. ALL STRUCTURAL STEEL WORK SHALL BE IN ACCORDANCE WITH DIVISION 05 SPECIFICATIONS.
B. SLOTTED HOLES FOR BEAM END CONNECTIONS ARE NOT ALLOWED FOR BEAMS ASSOCIATED WITH A BRACED FRAME OR MOMENT FRAME, OR NOTED WITH A REQUIRED AXIAL CONNECTION FORCE, UNLESS CONNECTIONS ARE DESIGNED AND CONSTRUCTED AS SLIP CRITICAL, USING CLASS A SURFACE PREPARATION AND PRE-TENSIONED BOLTS.
C. GUSSET PLATES AND STIFFENER PLATES SHALL BE 3/8" MINIMUM, WELDED BOTH SIDES CONTINUOUSLY, UNLESS NOTED OTHERWISE.
D. POWDER ACTUATED FASTENERS (OR POWDER DRIVEN FASTENERS) SHALL BE ANCHORED IN STEEL WITH MINIMUM FASTENER SPACING OF 1 1/2" AND MINIMUM EDGE DISTANCE OF 1/2".
E. MATERIALS:
1. W-SHAPES: ASTM A 992.
2. CHANNELS, ANGLES, M-SHAPES: ASTM A 572, GRADE 50.
3. PLATE AND BAR: ASTM A 36.
4. HIGH-STRENGTH A325 BOLTS, NUTS, AND WASHERS: ASTM F3125, GRADE A325, TYPE 1, HEAVY-HEX STEEL STRUCTURAL BOLTS; ASTM A563, GRADE DH, HEAVY-HEX CARBON-STEEL NUTS; AND ASTM F436, TYPE 1, HARDENED CARBON-STEEL WASHERS.
a. DIRECT-TENSION INDICATORS: ASTM F959, TYPE 325-1, COMPRESSIBLE-WASHER TYPE.
b. FINISH: PLAIN FINISH. AT EXTERIOR CONDITIONS AND GALVANIZED STEEL, HOT-DIP OR MECHANICALLY DEPOSITED ZINC COATING.
5. HIGH-STRENGTH A490 BOLTS, NUTS, AND WASHERS: ASTM F3125, GRADE A490, TYPE 1, HEAVY-HEX STEEL STRUCTURAL BOLTS; ASTM A563, GRADE DH, HEAVY-HEX CARBON-STEEL NUTS; AND ASTM F436, TYPE 1, HARDENED CARBON-STEEL WASHERS.
a. DIRECT-TENSION INDICATORS: ASTM F959, TYPE 490-1, COMPRESSIBLE-WASHER TYPE.
b. FINISH: PLAIN FINISH. AT EXTERIOR CONDITIONS AND GALVANIZED STEEL, HOT-DIP OR MECHANICALLY DEPOSITED ZINC COATING.
6. TENSION-CONTROL, HIGH-STRENGTH BOLT-NUT-WASHER ASSEMBLIES: ASTM F3125, GRADE F1852, TYPE 1, HEAVY-HEX OR ROUND HEAD ASSEMBLIES, CONSISTING OF STEEL STRUCTURAL BOLTS WITH SPLINED ENDS; ASTM A563, GRADE DH, HEAVY-HEX CARBON-STEEL NUTS; AND ASTM F436, TYPE 1, HARDENED CARBON-STEEL WASHERS.
a. FINISH: PLAIN FINISH. AT EXTERIOR CONDITIONS AND GALVANIZED STEEL, HOT-DIP OR MECHANICALLY DEPOSITED ZINC COATING.
7. SHEAR CONNECTORS: ASTM A 108, AISI C-1015 THROUGH C-1020 HEADED-STUD TYPE, COLD FINISHED CARBON STEEL; AWS D1.1, TYPE B.
8. UNHEADED ANCHOR RODS: ASTM F1554, GRADE 36.
a. CONFIGURATION: STRAIGHT.
b. NUTS: ASTM A563 HEAVY-HEX CARBON STEEL.
c. PLATE WASHERS: ASTM A36 CARBON STEEL.
d. WASHERS: ASTM F436, TYPE 1, HARDENED CARBON STEEL.
e. FINISH: PLAIN FINISH. AT EXTERIOR CONDITIONS AND GALVANIZED STEEL, HOT-DIP ZINC COATING, ASTM A153, OR MECHANICALLY DEPOSITED ZINC COATING, ASTM B695.
9. THREADED RODS: ASTM A 36.
10. NONMETALLIC, SHRINKAGE-RESISTANT GROUT: ASTM C 1107, FACTORY-PACKAGED, NONMETALLIC AGGREGATE GROUT, NONCORROSIVE AND NONSTAINING, MIXED WITH WATER TO CONSISTENCY SUITABLE FOR APPLICATION AND A 30-MINUTE WORKING TIME.

CONCRETE MASONRY

A. ALL MASONRY WORK SHALL BE IN ACCORDANCE WITH DIVISION 04 SPECIFICATIONS.
B. MASONRY GROUT SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AT 28-DAYS.
C. CONCRETE MASONRY UNITS SHALL BE CUT BELOW BEAMS, LINTELS, OR BOND BEAMS AS REQUIRED IN ORDER TO GET CONTINUOUS BEAM, LINTEL, OR BOND BEAMS AT THE PROPER ELEVATION.

DESIGN LOADS

DESIGN ROOF DEAD LOAD:	
20 PSF (TYPICAL)	
DESIGN ROOF LIVE LOAD:	
20 PSF	
DESIGN SNOW LOAD:	
GROUND SNOW LOAD, Pg	35 PSF
FLAT ROOF SNOW LOAD, Pf	25 PSF
MINIMUM ROOF SNOW LOAD, Pm	30 PSF
SNOW EXPOSURE FACTOR, Ce	1.0
SNOW IMPORTANCE FACTOR, Is	1.1
SNOW THERMAL FACTOR (TYPICAL), Ct	1.00
DESIGN WIND LOAD:	
BASIC DESIGN WIND SPEED, V	120 MPH
ALLOWABLE STRESS DESIGN WIND SPEED, Vasd	93 MPH
RISK CATEGORY	III
WIND EXPOSURE CATEGORY	C
INTERNAL PRESSURE COEFFICIENT	+/- 0.18
DESIGN SEISMIC LOAD:	
RISK CATEGORY	III
MAPPED SPECTRAL RESPONSE COEFFICIENT, Ss	0.162
MAPPED SPECTRAL RESPONSE COEFFICIENT,S1	0.088
DESIGN SPECTRAL RESPONSE COEFFICIENT, Sds	0.172
DESIGN SPECTRAL RESPONSE COEFFICIENT, Sd1	0.140
SITE CLASS (ASSUMED)	D
BASIC SEISMIC-FORCE RESISTING SYSTEM	
STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE, EXCLUDING CANTILEVER COLUMN SYSTEMS	
RESPONSE MODIFICATION FACTOR, R	3
ANALYSIS PROCEDURE:	
EQUIVALENT LATERAL FORCE (ASCE 7, SECTION 12.8)	
SEISMIC DESIGN CATEGORY	C
SEISMIC IMPORTANCE FACTOR, Ie	1.25
NOTES:	
1. NO PROVISIONS HAVE BEEN MADE FOR FUTURE HORIZONTAL OR VERTICAL EXPANSION.	

ABBREVIATIONS

ACI	AMERICAN CONCRETE INSTITUTE	**KLF**	KIPS PER LINEAL FOOT
ADDL	ADDITIONAL	**KO**	KNOCKOUT
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL	**KSI**	KIPS PER SQUARE INCH
		KSF	KIPS PER SQUARE FOOT
AFF	ABOVE FINISHED FLOOR	**L**	LENGTH
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	**LFH**	LONG FACE HORIZONTAL
		LFV	LONG FACE VERTICAL
AISI	AMERICAN IRON AND STEEL INSTITUTE	**LG**	LONG
ALTN	ALTERNATE	**LL**	LIVE LOAD
AR	ANCHOR ROD	**LLH**	LONG LEG HORIZONTAL
ARCH	ARCHITECT	**LLV**	LONG LEG VERTICAL
ASD	ALLOWABLE STRESS DESIGN	**LO**	LOW
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS	**LOCS**	LOCATIONS
		LRFD	LOAD RESISTANCE FACTORED DESIGN
AWS	AMERICAN WELDING SOCIETY		
B/	BOTTOM OF	**LSH**	LONG SIDE HORIZONTAL
BD	BOARD	**LSV**	LONG SIDE VERTICAL
BETW	BETWEEN	**LW**	LONG WAY
BLDG	BUILDING	**LWC**	LIGHT WEIGHT CONCRETE
BM	BEAM	**MAX**	MAXIMUM
BOT	BOTTOM	**MEP**	MECHANICAL, ELECTRICAL & PLUMBING
BP	BASE PLATE		
BRDG	BRIDGING	**MEZZ**	MEZZANINE
BRG	BEARING	**MFR**	MANUFACTURER
C/C	CENTER-CENTER	**MIN**	MINIMUM
CFSF	COLD FORMED STEEL FRAMING	**MISC**	MISCELLANEOUS
CIP	CAST-IN-PLACE	**MPII**	MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS
CJ	CONTROL JOINT		
CL	CENTERLINE	**MTL**	METAL
CLR	CLEAR	**NIC**	NOT IN CONTRACT
CMU	CONCRETE MASONRY UNIT	**NS**	NEAR SIDE
COL	COLUMN	**NTS**	NOT TO SCALE
CONC	CONCRETE	**OC**	ON CENTER
CONN	CONNECTION	**OD**	OUTSIDE DIAMETER
CONT	CONTINUOUS	**OH**	OPPOSITE HAND
CTR	CENTER	**OPEN**	OPENING
D	DEEP	**PAF**	POWDER ACTUATED FASTENERS
DBA	DEFORMED BAR ANCHOR	**PCF**	POUNDS PER CUBIC FOOT
DBL	DOUBLE	**PEMB**	PRE-ENGINEERED METAL BUILDING
DEP	DEPRESSED	**PJF**	PREFORMED JOINT FILLER
DIA	DIAMETER	**PL**	PLATE
DIAG	DIAGONAL	**PLF**	POUNDS PER LINEAL FOOT
DL	DEAD LOAD	**PPHCC**	PRESTRESSED PRECAST HOLLOW CORE CONCRETE
DWL	DOWEL		
DN	DOWN	**PREFAB**	PRE-FABRICATED
EA	EACH	**PSI**	POUNDS PER SQUARE INCH
EF	EACH FACE	**PSF**	POUNDS PER SQUARE FOOT
EJ	EXPANSION JOINT	**PT**	POST TENSIONED
ELEV	ELEVATION	**P.T.**	PRESSURE TREATED
ENG	ENGINEER OR ENGINEERING	**QTY**	QUANTITY
EOS	EDGE OF SLAB	**RAD**	RADIUS
EQ	EQUAL	**RD**	ROOF DRAIN
EW	EACH WAY	**REF**	REFERENCE
EXIST	EXISTING	**REINF**	REINFORCING
EXP	EXPANSION	**REQD**	REQUIRED
EXT	EXTERIOR	**REV**	REVISION
F/	FACE OF	**RTU**	ROOF TOP UNIT
FD	FLOOR DRAIN	**SCHED**	SCHEDULE
FDN	FOUNDATION	**SER**	STRUCTURAL ENGINEER OF RECORD
FF	FINISH FLOOR	**SF**	SQUARE FOOT
FLR	FLOOR	**SHTHG**	SHEATHING
FRT	FIRE RETARDANT TIMBER	**SIM**	SIMILAR
FS	FAR SIDE	**SLH**	SHORT LEG HORIZONTAL
FTG	FOOTING	**SLV**	SHORT LEG VERTICAL
FV	FIELD VERIFY	**SPA**	SPACES
GA	GAUGE, GAGE	**SPEC**	SPECIFICATION
GALV	GALVANIZED	**SS**	STAINLESS STEEL
GC	GENERAL CONTRACTOR	**STD**	STANDARD
GDR	GIRDER	**STIFF**	STIFFENER
GENL	GENERAL	**STL**	STEEL
GYP	GYPSUM	**SW**	SHORT WAY
HCA	HEADED CONCRETE ANCHORS	**SYM**	SYMMETRICAL
HDR	HEADER	**T/**	TOP OF
HG	HIP GIRDER	**T&B**	TOP & BOTTOM
HGR	HANGER	**T&G**	TONGUE & GROOVE
HI	HIGH	**TEMP**	TEMPORARY
HKD	HOOKED	**TG**	TRUSS GIRDER
HORIZ	HORIZONTAL	**THK**	THICKENED/THICK
HSS	HOLLOW STRUCTURAL SECTION	**THRU**	THROUGH
H.T.	HEAVY TIMBER	**TYP**	TYPICAL
ID	INSIDE DIAMETER	**UNO**	UNLESS NOTED OTHERWISE
IE	INVERT ELEVATION	**VERT**	VERTICAL
INSUL	INSULATION OR INSULATING	**W**	WIDE
INT	INTERIOR	**W/**	WITH
JBE	JOIST BEARING ELEVATION	**W/O**	WITHOUT
JT	JOINT	**WD**	WOOD
JST	JOIST	**WP**	WORK POINT
K	KIPS (KILOPOUNDS)	**WWR**	WELDED WIRE REINFORCEMENT

Crosskey Architects LLC
Architecture Preservation Planning
750 Main Street Hartford, CT 06103
T: (860)724-3000 F: (860)724-3013

Mansfield Middle School Cafeteria

205 Spring Hill Road
Storrs, CT

Town of Mansfield

NOT FOR CONSTRUCTION

Drawn: GKS
Date: 03/13/2026
Revisions

PES STRUCTURAL ENGINEERS
ADDRESS 75 Columbus Blvd, Hartford, CT 06103
PHONE 860.479.1737 **WEB** www.pesengineers.com
PES PROJECT NUMBER: 0250387
PES CONNECTICUT LICENSE NUMBER: PEC.0002271
EXPIRATION DATE: 2/12/2027

GENERAL NOTES & SCHEDULES

S-001

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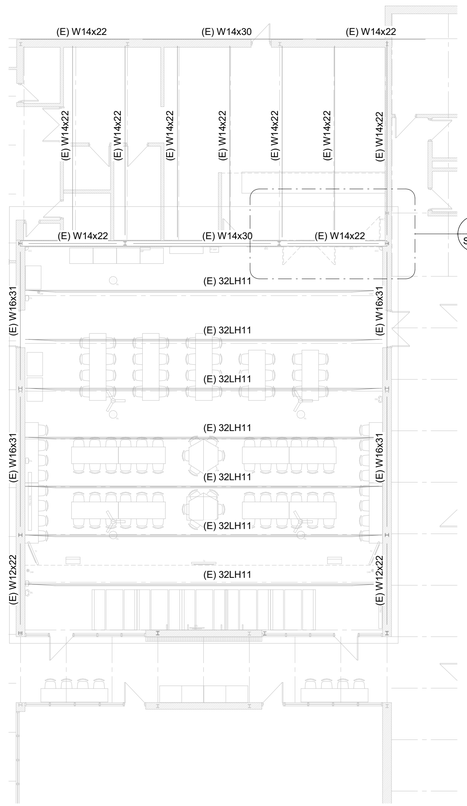
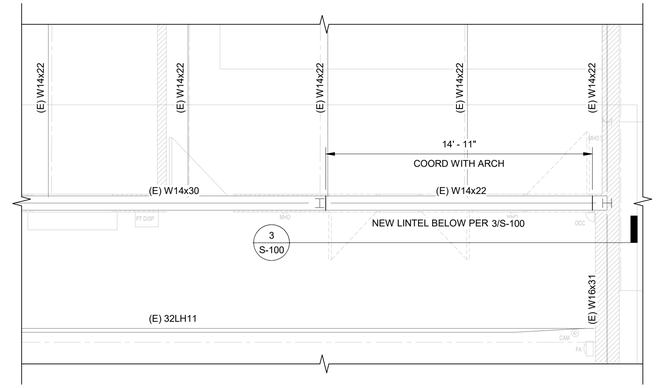


KEY PLAN - ROOF FRAMING

1
S-100

SCALE: 3/32" = 1'-0"

- EXISTING FRAMING INFORMATION SHOWN IS BASED ON 'MANSFIELD MIDDLE SCHOOL' DRAWING SET DATED JULY 15, 1968 BY RUSSELL GIBSON VON DOHLEN ARCHITECTS AIA, SEE 'EXISTING CONDITIONS' NOTE SECTION ON SHEET S-001
- SEE 'DESIGN LOADS' ON SHEET S-001 FOR EXISTING BUILDING LOADING ASSUMPTIONS.



PLAN - NEW LINTEL AT CAFETERIA

2
S-100

SCALE: 1/4" = 1'-0"

B-B

NEW LINTEL AT EXISTING NON LOAD-BEARING CMU

3
S-100

SCALE: 1" = 1'-0"

Crosskey Architects LLC
Architecture Preservation Planning
750 Main Street Hartford, CT 06103
T: (860)724-3000 F: (860)724-3013

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ADDRESS 75 Columbus Blvd, Hartford, CT 06103
PHONE 860.479.1737 **WEB** www.pesengineers.com
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STRUCTURAL PLAN & DETAIL
S-100

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ELECTRICAL GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN COMPLIANCE WITH THE 2020 EDITION OF THE NATIONAL ELECTRICAL CODE, LOCAL AND 2022 CT STATE BUILDING CODES AND ALL APPLICABLE AMENDMENTS.
2. E.C. SHALL OBTAIN AND PAY FOR BOTH ROUGH AND FINAL INSPECTION AND OBTAIN A CERTIFICATE OF "ELECTRICAL INSPECTION". THIS CERTIFICATE SHALL BE PRESENTED WITH REQUEST FOR FINAL PAYMENT.
3. IT IS THE INTENT OF THESE PLANS TO PROVIDE A COMPLETE AND OPERATING ELECTRICAL SYSTEM. THE E.C. SHALL FURNISH AND INSTALL ALL WIRING, CONDUIT, EQUIPMENT, MATERIAL, ETC. AS REQUIRED., EXCEPT WHERE SPECIFICALLY NOTED AS BEING FURNISHED BY OTHERS. SHOULD THERE BE ANY QUESTIONS CONCERNING RESPONSIBILITY, THE QUESTIONS SHALL BE SETTLED BEFORE BID SUBMISSION AND CONTRACT SIGNING. NO EXTRA CHARGES WILL BE ALLOWED.
4. THE E.C. SHALL COORDINATE ALL PHASING OF WORK WITH THE ARCHITECT, GENERAL CONTRACTOR AND/OR OWNER OF THE PROJECT.
5. REFER TO THE ARCHITECTURAL DRAWINGS FOR SPECIFIC DETAILS, ARRANGEMENTS, MOUNTING HEIGHTS, CEILING CONSTRUCTION, ETC. ALL COLORS AND FINISHES TO BE SELECTED BY THE ARCHITECT.
6. ALL ELECTRICAL EQUIPMENT SHALL BE SEISMICALLY SUPPORTED AS REQUIRED BY THE LOCAL AND STATE BUILDING CODE.
7. ALL NECESSARY MOUNTING HARDWARE, HANGERS, BRACKETS, RAILS, YOKES, STEMS, CHAINS, ETC. SHALL BE FURNISHED AND INSTALLED BY E.C.
8. ALL HOMERUNS TO PANELBOARDS DESIGNATED SHALL CONSIST OF 2#12 AWG & 1#12 GROUND IN 3/4" CONDUIT TO PANEL LABELED AT THE HOMERUN SYMBOL UNLESS OTHERWISE NOTED.
9. ALL WIRING INSTALLED UNDER THIS CONTRACT SHALL BE TESTED FOR PROPER CONNECTIONS AND SHORT CIRCUITS PRIOR TO THE TURNING OVER OF WORK AS A COMPLETE UNIT.
10. ALL CONDUITS PASSING THROUGH PARTITIONS ARE TO BE APPROPRIATELY SLEEVED AND SEALED.
11. E.C. SHALL GUARANTEE ALL MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF APPROVAL AND FINAL ACCEPTANCE.
12. ALL CONDUIT AND WIRING SHALL BE RUN CONCEALED IN WALLS, FLOORS AND CEILINGS UNLESS OTHERWISE NOTED TO BE EXPOSED.
13. ALL WIRING SHALL BE TYPE THWN OR THW UNLESS OTHERWISE NOTED. FOR CONDUCTORS LARGER THAN #6 AWG, TYPE XHHW WILL BE ACCEPTED.
14. CONDUCTORS SIZED #10 AWG AND SMALLER WITHIN A CABLE ASSEMBLY (NM SHEATHED CABLE; METAL CLAD; ARMORED CABLE) SHALL BE SOLID WIRE CONDUCTORS. CONDUCTORS SIZED LARGER THAN #10 AWG IN SUCH ASSEMBLIES SHALL BE STRANDED TYPE. COMMUNICATIONS AND CONTROL WIRE SHALL BE #14 GAUGE STRANDED, SHIELDED UNLESS OTHERWISE DIRECTED BY INSTALLATION MANUALS AND STANDARDS.
15. PROVIDE GROUND-FAULT PROTECTION ON EQUIPMENT SERVICE RATED 1000 AMPS OR MORE OPERATING AT 480Y/277 VOLTS PER ARTICLE 230.95 OF THE NEC.
16. ALL CIRCUITS BACK TO PANEL SHALL REQUIRE 20A-1 POLE BREAKERS UNLESS OTHERWISE NOTED
17. ALL DRAWINGS ARE SCHEMATIC IN NATURE; ALL DEVICES SHALL BE INSTALLED IN ALL AREAS AND LIVING SPACES PER NEC AND SHALL BE DIMENSIONED IN FIELD TO MEET PROPER CODES; ALL DISCREPANCIES SHALL BE BROUGHT TO THE ENGINEERS ATTENTION DURING BID PROCESS AND/OR ADJUSTED IN FIELD DURING CONSTRUCTION
18. ALL WORK IS NEW UNLESS OTHERWISE NOTED.

ELECTRICAL LIGHTING NOTES:

1. REFER TO ARCHITECTURAL REFLECTIVE CEILING PLANS FOR EXACT LOCATIONS OF CEILING MOUNTED LIGHT FIXTURES. REFER TO ARCHITECTURAL ELEVATIONS FOR MOUNTING HEIGHT OF WALL MOUNTED LIGHT FIXTURES INDOORS AND OUTDOORS.
2. ALL LIGHT FIXTURES IN CEILING SHALL BE BRACED TO THE BUILDING STRUCTURE AND NOT TO THE CEILING.
3. EMERGENCY LIGHTING UNITS AND EMERGENCY BALLASTS SHALL BE WIRED INTO ASSOCIATED LIGHTING CIRCUITS AHEAD OF ANY SWITCHED LEGS FOR CONTINUOUS CHARGING AND AC CIRCUIT MONITORING.
4. COORDINATE LOCATIONS AND DIRECTIONAL ARROWS OF ALL EXIT SIGNS WITH ARCHITECTURAL EGRESS PLAN.
5. PROVIDE IC HOUSING FOR LIGHTING FIXTURE WHERE REQUIRED; COORDINATE WITH ARCHITECTURAL PLANS.

ELECTRICAL DEMOLITION NOTES:

1. CERTAIN SYSTEMS, SUCH AS THE FIRE ALARM SYSTEM, SECURITY SYSTEM, ETC...MAY REQUIRE STAND-BY WATCHES DURING SHUT-DOWN. E.C. SHALL ARRANGE AND PAY FOR ANY SUCH STAND-BY WATCHES.
2. THE E.C. SHALL REMOVE ALL EQUIPMENT INCLUDING CONDUIT AND WIRE BACK TO POWER SOURCE. SOME CONDUIT AND WIRING MAY BE HIDDEN, E.C. SHALL CARRY THE COST TO REMOVE SAID WIRING AT NO ADDITIONAL COST TO THE OWNER.
3. ANY DEMOLITION WORK REQUIRING THE SHUT-DOWN OF ELECTRICAL SERVICE TO THE BUILDING OR ANY PORTION THEREOF, THE E.C. SHALL MAKE ARRANGEMENTS WITH THE OWNER AND OTHER CONCERNED AUTHORITY.
4. ALL ITEMS SCHEDULED FOR DEMOLITION SHALL BE REMOVED FROM SITE UNLESS OTHERWISE NOTED. E.C. SHALL BE RESPONSIBLE FOR CLEANING OF SITE ON A DAILY BASIS.

KEYED NOTES

①	EXISTING CEILING FANS TO BE REMOVED. RE-WIRE NEW CEILING FAN TO EXISTING CIRCUIT.
②	PROVIDE NEW SMOKE DETECTOR TO MATCH EXISTING. EXTEND FIRE ALARM CABLE. SMOKE DETECTOR SHALL BE MOUNTED AS HIGH AS POSSIBLE

ELECTRICAL SYMBOL LIST

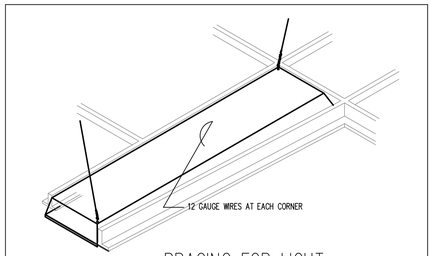
$_X	WALL SWITCH; SUBSCRIPT SWITCH NUMBER.
	SWITCHED CIRCUIT
	HOMERUN TO WALL SWITCH;
TV	TELEVISION LOCATION
	EXIT SIGN WITH BATTERY BACKUP (see schedule)
	EMERGENCY LIGHT WITH BATTERY PACK
	FIRE ALARM COMBINATION HORN/STROBE
	PUBLIC ANNOUNCEMENT SPEAKER
OCC	OCCUPANCY SENSOR
CAM	SECURITY CAMERA
	CEILING FAN
SPKR	AUDIO SPEAKER
S	SMOKE DETECTOR
C	OVERHEAD DOOR CONTROLLER
	EXISTING ELECTRICAL PANEL

LIGHTING FIXTURE SCHEDULE

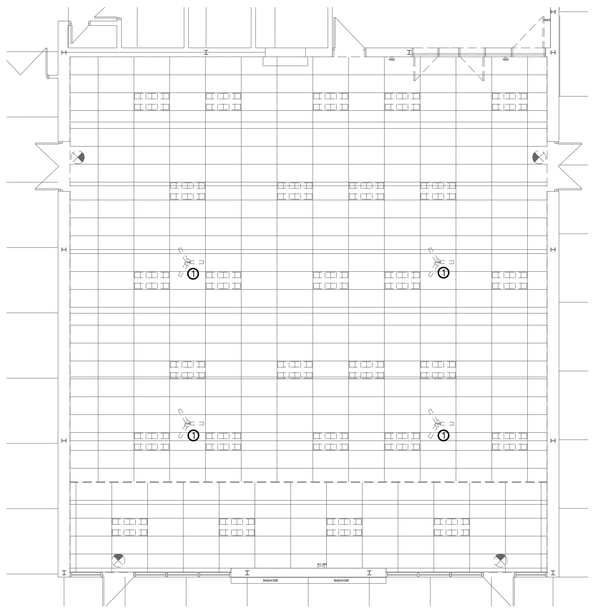
TYPE	SYMBOL	MANUFACTURER	CATOLG #	DESCRIPTION	LAMP	WATTS	VOLTAGE
A		CORONET	LS4.UPDN-5-30-MED-MED-UNV-DB-W	DIRECT/INDIRECT 6' FIXTURE	LED	55	120
B		CORONET	LSR4-39-30-MED-UNV-DB-W	39' RECESSED FIXTURE	LED	214.5	120
C		CORONET	DROP.W-6-30-MED-UNV-DB-W	6" PENDANT FIXTURE	LED	20	120
F		BIG ASS FANS	MK-HK4-04-2406-A258-F258	CEILING FAN	LED	20	120

LIGHTING NOTES:

1. ALL LIGHTING CONTROLS TO REMAIN. REWIRE NEW FIXTURES TO EXISTING SWITCH CONTROLS AS SHOWN.



BRACING FOR LIGHT FIXTURES NOT TO SCALE



1 DEMO CEILING PLAN
SCALE: 1/8"=1'-0"

2 PROPOSED CEILING PLAN
SCALE: 1/8"=1'-0"

LEGEND NOTES:

EX EXISTING TO REMAIN
NL NEW LOCATION
RL RELOCATE EXISTING TO NEW CEILING GRID
RC RE-CIRCUIT EXISTING
ND NEW DEVICE

Crosskey Architects LLC
Architecture Preservation Planning
750 Main Street, Hartford, CT 06103
T: (860)724-3000 F: (860)724-3013

Mansfield Middle School Cafeteria

Street, Mansfield, CT

Town of Mansfield

NOT FOR CONSTRUCTION

Drawn: MST
Date: 03/18/2026
Revisions

Cafeteria Floor Plan

E-100

acorn Consulting Engineers Inc.
- Mechanical Electrical Engineering for Building Systems -
P.O. Box 311 • Farms Village Plaza • 244 Farms Village Road
West Simsbury, CT 06092 • (860) 651-1949 • fax (860) 651-1957
www.acornengineers.com

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1.01 GENERAL

Architect's General Conditions are a part of this Division. All work shall be done in strict accordance with all applicable Codes and Regulations of local and State Agencies and utility companies. This Contractor shall bear the cost of all fees, permits, licenses and taxes and any utility company charges in connection with the work.

1.02 SCOPE

Furnish all labor, materials, appliances, fixtures, tools, equipment, and services pertaining to the complete installation and construction of the project's electrical systems. System shall be complete in all respects, tested, accepted and ready to operate.

1.03 SUBMITTALS

Submit six (6) copies of manufacturer's drawings of the following to the Architect for approval:

Submit information on any other equipment to be used when requested by the Architect or the Engineer.

1.04 GUARANTEE

Materials, equipment and workmanship shall have standard warranty against defects in material and workmanship. Any failure due to defective or improper material, equipment, workmanship or design shall be made good, forthwith, by and at the expense of the Contractor, including any damage done to areas, materials and other systems resulting from this failure. Guarantee period shall extend for one (1) year from the Date of Acceptance.

1.05 DEFINITION:

As used on Contract Documents, the term "to provide" shall mean "to furnish, install and connect completely in the specified or approved manner the item or material described."

1.06 OPERATING AND MAINTENANCE INSTRUCTIONS

Upon completion of the project, the Electrical Contractor shall fully instruct the Owner in the operation, adjustment and maintenance of all equipment and systems furnished.
The Electrical Contractor shall provide the Owner with three (3) sets of complete maintenance and operating instructions, and technical data, in booklet form, of all equipment and devices furnished in the Contract.

1.07 CONTRACTOR'S INSPECTION

Contract Drawings are diagrammatic and do NOT show every required device, conductor, etc. The Contractor shall familiarize himself with the existing site conditions, prior to submitting a bid, and shall include all equipment and accessories necessary for complete and operational systems.

The Electrical Contractor shall examine the Architectural Drawings, the drawings and specifications of other trades to determine the extent of work. The Electrical Contractor shall visit the site and become familiar with the project and local conditions before submitting a bid. Drawings are diagrammatic and indicate the general arrangement of systems and work included in the Contract. If so directed by the Architect or Engineer, the Electrical Contractor shall, without extra charge, make reasonable modifications in the layout to prevent conflict with those of other trades and for proper installation of work. Refer to the Architect's Reflected Ceiling Plan for exact location of air diffusers, registers and grilles. The Contractor shall coordinate locations of equipment with all trades before starting construction. Any modifications to the equipment layout required for installation shall be performed at no additional cost to the Owner.

1.08 ARRANGEMENT OF WORK:

Work shall be coordinated between trades to prevent unnecessary interference. Work shall present a neat coordinated appearance. Install work as necessary to provide maximum possible headroom, adequate clearance and ready access for inspection, operation, Code conformance, safe maintenance and repair. Where space appears inadequate, consult the Owner before proceeding with installation.

1.09 INSURANCE:

Furnish insurance certificates required by the Owner.

1.10 PERMITS, LAWS, ORDINANCES, CODES AND STANDARDS:

Obtain and pay for permits, inspections, licenses and certificates required. Work of this Contract shall meet State Building Code, State Fire Safety Code and other laws, rules and regulations of local, State and Federal authorities; National Fire Protection Association #90A and #90B; Mechanical & Plumbing Codes; 2020 National Electrical Code; and local utility company requirements. Pay utility company back charges. Equipment, materials and components listed UL Product Directories, shall bear UL labels.

1.11 WORK BY OTHERS:

The Electrical Contractor shall wire all motors provided under the HVAC Contract. The HVAC Contractor shall install all motors ready for wiring by the Electrical Contractor and shall furnish and deliver to the Electrical Contractor wiring diagrams for all motor starters for installation and wiring. The HVAC Contractor shall furnish motor starters, relays and all temperature control equipment to the Electrical Contractor for installation and wiring. The General Contractor shall perform all excavation, backfill, chases, openings, cutting, patching and finish work.

1.12 FIELD MEASUREMENTS

The Electrical Contractor shall verify in the field all measurements necessary for the work. Verify the mounting heights of receptacles and fixtures with the Architect before installation.

The Electrical Contractor shall coordinate his work with structure, ceilings, ductwork and piping of other trades.

1.13 WORKMANSHIP:

Equipment and materials shall be new, of first quality, selected and arranged to fit properly into spaces indicated. Install equipment and materials in accordance with manufacturer's recommendations.

1.14 COORDINATION WITH OWNER:

All work shall be scheduled with the Owner. Interruptions in the Owner's access to the site shall be subject to Owner limitations of date and duration.

1.15 OPERATION OF SERVICES AND UTILITIES:

Shutdown of existing services and utilities shall, without exception, be coordinated with the proper utility and with the Owner as to date, time of day, and duration before any service is interrupted. Notify the Owner of estimated duration of shutdown period at least ten days in advance of proposed shutdown.

1.16 PROTECTION:

Close open ends of work with temporary covers or plugs during construction to prevent entry of obstructing material or damaging water. Protect existing property, equipment and finishes from damage. Repair, to original condition, existing property that has been damaged during execution of the work.

1.17 CLEANING:

Work site must be kept clean. Rubbish, debris and leftover or excess materials shall be removed daily.

1.18 PAINTING:

Electrical equipment and materials shall have prime coat and standard manufacturer's finish. Painting of finished surfaces (excluding ceilings) shall be one coat primer and two coats vinyl base semi-gloss paint. Painting of ceiling shall be one coat primer and two coats flat white paint. Primer shall be omitted on repainting of existing surfaces.

1.19 CUTTING AND PATCHING:

Areas disturbed by new construction or demolition shall be patched and repaired to match existing conditions. Patch painting of ceilings shall include painting of entire ceiling of room involved. Patch painting of other surfaces shall be to nearest cut-off point.

1.20 WATERPROOFING:

Provide necessary sleeves, caulking and flashing required to make openings waterproof.

1.21 FIREPROOFING:

At closing of each working day, provide temporary firestopping in every opening cut between floors and through fire-rated partitions. Permanent firestops shall be provided around sleeves and at other permanent openings through fire-rated partitions and floors, as required. Materials used for fire stopping shall be Class A "incombustible" with firestopping capabilities equal to that of adjacent construction.

1.22 BASES AND SUPPORTS:

Provide necessary supports, pads, bases and piers required. Equipment shall be securely attached to building structure in acceptable manner. Attachments shall be of strong and durable nature, as determined by the Owner.

1.23 ACCESS:

Provide adequately sized access doors for access to concealed equipment and components requiring servicing or inspection. Doors shall have fire ratings equal to construction in which they are located.

1.24 TESTS:

Perform tests required by the Owner, legal authorities and agencies.

1.25 SEISMIC REQUIREMENTS:

Submit four (4) copies of a final inspection report which includes: sealed certification by a Structural Engineer with P.E. registration in the state in which the project is located, that:

Engineer has reviewed the project.
Engineer has approved the use of the devices for the particular applications.
The devices satisfy Specification and Code mandated seismic criteria.

1.26 ELECTRICAL IDENTIFICATION:

Provide wire markers on each conductor in panelboard gutters, pull boxes, and at load connection. Identify with branch circuit or feeder number for power and lighting circuits, and with control wire number as indicated on equipment manufacturer's shop drawings for control wiring.

Provide neatly typed directory in door of each branch circuit panelboard identifying each circuit, its use, and breaker size. Prepare directory only after all circuit adjusting for phase balancing has been completed.

Provide typed legend of circuits in each main circuit board and distribution panel.

PART 2 – PRODUCTS

2.01 RACEWAYS

Flexible steel conduit shall have an integral bond wire for grounding. Liquidtight flexible conduit shall be used where flexibility and protection from liquids, vapors, or solids is needed.

Aluminum conduit and fittings will not be allowed unless specifically noted on drawings.

A. Rigid Metal Conduit and Fittings:

Rigid Steel Conduit: ANSI C80.1–2005
.

Fittings and Conduit Bodies: ANSI/NEMA FB 2.10–2003; threaded type, material to match conduit.

B. Intermediate Metal Conduit (IMC) and Fittings:

Conduit: Galvanized steel. ANSI C80.3–2005

Fittings and Conduit Bodies: ANSI/NEMA FB 2.10–2003; use fittings and conduit bodies specified above for rigid steel conduit.

C. Electrical Metallic Tubing (EMT)

Electrical Metallic Tubing. ANSI C80.6–2005

Fittings and Conduit Bodies: Material to Match.

D. Liquidtight Flexible Conduit and Fittings:

Conduit: Flexible metal conduit with PVC jacket.

Fittings and Conduit Bodies: ANSI/NEMA FB 2.10–2003.

E. Surface Metal Raceways:

As manufactured by Wiremold, Inc., type and size as indicated on Drawings.

F. PVC Raceways:

As installed per Article 352 of the NEC.

G. Conduit Supports:

Conduit Clamps, Straps, and Supports: Steel or malleable iron.

2.02 SLEEVES

Through fire rated building elements: UL approved for the application and rating.

Through new construction: 18 gage galvanized sheet metal, flush with surface on both sides.

Through existing construction: Neatly core bored hole or schedule 40 steel pipe sleeve, securely mortared into place.

Wet Locations: Extend sleeve 2" above finished floor. If hole is core bored, provide sheet metal collar sealed to opening, extending 2" above floor.

2.03 WIRE AND CABLE

Thermoplastic – insulated Building Wire: NEMA WC 70.

Rubber – insulated Building Wire: NEMA WC 70.

Feeders and Branch Circuits Larger Than 6 AWG; Copper, stranded conductor, 600 volt insulation, THW, THHN/THWN.

Feeders and Branch Circuits 6 AWG and Smaller: Copper conductor, 600 volt insulation, THW OR THHN/THWN, stranded conductor.
Control Circuits: Copper, stranded conductor 600 volt insulation, THW, THHN, THWN, XHHW.

Wire sizes #14 and larger shall be stranded. All sizes called for in the specifications or on the plans are American Wire Gauge sizes. Conductors shall be copper, unless noted differently.

All wire shall be factory color coded with a separate color for phase, switch and neutral used consistently throughout. The neutral wire of all branch circuits shall be white. Green shall be used for equipment grounding conductors. Feeders shall be phase color coded at all access points.

The use of MC or SER cable for panel feeders is acceptable where concealed. Exposed feeders shall be run in EMT or RGC.

The use of MC cable for panel feeders is prohibited. Use appropriate type of rigid metal raceway.

The use of MC cable and NM cable is acceptable as required by code or as unless otherwise noted elsewhere. Where MC cable is permitted under this specification, its use shall be governed by Article 330 and 334 of the National Electric Code and approved by authorities having jurisdiction.

Cables are required to be installed per NEC. All installation shall be coordinated with construction types and NEC requirements. Coordinate types of construction with Architectural plans and specifications. Install cables in conduit where required by NEC.

Provide plenum rated cable where required. Coordinate with Div. 15.

All wiring for branch circuits and grounding shall be provided and installed per NEC requirements. Any discrepancies to said requirements on drawings shall be verified during bid process with Engineer.

Remote Control and Signal Cable:

A. Control Cable for Class 1 Remote Control and Signal Circuits: Copper conductor, 600 volt insulation, rated 90 degree C. individual conductors twisted together, and covered with an overall PVC jacket.

B. Control Cable for Class 2 or Class 3 Remote Control and Signal Circuits: Copper conductor, 300 volt insulation, rated 90 degree C, individual conductors twisted together, and covered with a PVC jacket; UL listed.

2.04 BRANCH CIRCUITS

Provide all conduits, outlets, wiring for all power, lighting, control, equipment, motor, and special systems in the project.

All Electrical work on the project shall be provided under this Division unless specifically stated elsewhere.

2.05 GROUNDING CONDUCTORS

Furnish grounding conductors as indicated on drawings. All metallic parts of the system, including conduit, raceways, supports, switchboards, transformer neutrals, cabinets, and equipment shall be grounded in accordance with the National Electrical Code, and as indicated on the drawings. Separate insulated grounding conductor shall be installed in all conduits and in cable assemblies for all branch circuits and feeders. Outer metal jacket of cables or raceways shall not be used as the only method of grounding.

Distribution systems shall be provided with a separate grounding conductor for each three-phase feeder, for each branch circuit having a three phase protective device.

Required grounding conductor shall be installed in raceway with related phase and/or neutral conductors. Equipment grounding conductors are indicated on drawings. Where not indicated, they shall be provided in accordance with Table 250.122 of the NEC.

Grounding system shall have a resistance of not greater than 3 ohms and shall be measured before equipment is placed in operation.

Ground connectors shall be clamp type and bolts, nuts, lock washer and other components shall insure a permanent, corrosion resistant assembly. Connectors shall be as manufactured by Burndy, Ilsco, or OZ Gedney.

Equipment grounding system shall be connected to ground rod grid for system grounding. Install intersystem bonding termination, per article 250.94 of the NEC. Ground rods are to be copper clad steel, 3/4" diameter, not less than 10'–0" long.

2.06 SWITCHES AND RECEPTACLES

Switches:

1. 20 Amp – 1P, Hubbell #CSB120–I.
2. 20 Amp – 2P, Hubbell #CSB220–I.
3. 20 Amp – 3–Way, Hubbell #CSB320–I.
4. 20 Amp – 4–Way, Hubbell #CSB420–I
5. 20 Amp – With Pilot Light, Hubbell #1221–IL.

Receptacles: Specification Grade duplex, three wire, 125 volt, grounding:

1. 20 Amp – Hubbell #5362AI – Ivory.

Face Plates: (With the required number of gangs): Smooth thermoplastic (color selected by Architect) or satin finish stainless 203/204.

Face Plates: (Wet or Damp Locations) Cast aluminum, gasketed, in–use cover, Hubbell #WP826.

2.07 GROUND FAULT INTERRUPTER RECEPTACLES

Duplex, 20A, 125 volt AC, specification grade ivory, NEMA WD 6–2002, NEMA 5–20K, Hubbell #GFTR20–IU.

Face Plates: (Wet or Damp Locations) Gray cast aluminum, vertical, standard box mounting, gasketed, in–use. Hubbell #WP826

2.08 OUTLET BOXES

Outlet boxes and covers shall be pressed steel, except as noted, and protected against corrosion with zinc applied by the electric galvanizing, hot dipping or sheradizing process.

Outlet boxes shall be of sizes and type to accommodate:

1. Structural conditions.
2. Size and number of raceways and conductors or cable entering.
3. Device or fixture for which required.

Outside lighting outlets shall have galvanized or cadmium plated cast iron boxes with gaskets, drilled and tapped to take fixture specified for these locations.

Floor boxes where shown on plans shall be adjustable, watertight, cast iron, with brass cover and flange to match floor finish. Box shall be drilled and tapped to accommodate entering conduits and furnished with power or low tension pedestal head as indicated. Furnish in Steel City, National or equal.

Cast Boxes: Cast feralloy, deep type, gasketed cover, threaded hubs.

2.09 PULL AND JUNCTION BOXES

Sheet Metal Boxes: ANSI/NEMA OS 3–2012; galvanized steel.

Sheet Metal Boxes larger than 12 inches in any Dimension to be hinged enclosure.

Cast Metal Boxes for Outdoor and Wet Location Installations: NEMA 250; Type 4 and Type 6, flat–flanged, surface–mounted junction box, UL listed as raintight. Galvanized cast iron box and cover with ground flange, neoprene gasket, and stainless steel cover screws.

2.10 BOXES AND FITTINGS

Outlet boxes and fittings shall be installed at each outlet switch or junction point of conduit.

Outlet boxes shall be as manufactured by Steel City, National or Raco.

2.11 PANELBOARDS

Acceptable manufacturers: Square D, Westinghouse and Siemens.

Apartment Panelboard manufacturers: Leviton, Square D, Siemens.

Panels: Surface or flush mounted as indicated on the Drawings, complete with panel trim having concealed hinges and trim mounting screws. Provide locking door with flush catch.

Tube: Galvanized.

Keys: Provide two keys for each panel. Make keys interchangeable for panels of same voltage.

120/208 Volt Panelboards: 3 phase, 4 wire, solid neutral design with sequence style bussing and full capacity neutral, composed of an assembly of bolt–in–place molded case automatic circuit breakers with thermal and magnetic trip and trip free position separate from either ON or OFF positions. Provide common simultaneous trip for 2 and 3 pole breakers. Verify AIC ratings with local utility.

2.12 ENCLOSED CIRCUIT BREAKERS

Molded–Case Circuit Breaker: NEMA AB 1, with interrupting capacity to meet available fault currents.

Provide shunt–trip breakers for all kitchen equipment located under kitchen hood.

2.13 DISCONNECT SWITCHES

Acceptable manufacturers: Square D, Westinghouse and Siemens.

Motor and circuit disconnects shall have an Underwriters' Laboratory label.

Coordinate AIC ratings with local utility.

Single Phase Disconnect Switches: Two pole toggle switch and one pole thermo switches. Shall be rated to protect equipment.

Contractor shall coordinate with equipment served by each disconnect to verify the need for a fused element in the disconnect. Provide such whenever required or recommended by the manufacturer of the equipment served.

2.14 LIGHTING

Furnish and install lighting fixtures, lighting equipment and lamps and/or tubes for all lighting outlets as shown on the plans and listed on the fixture schedule.

Furnish and install all mounting accessories, brackets, stems, etc., required for the complete installation of the lighting fixtures.

Fixture wire shall be in strict compliance with the latest National Electrical Code. No fixture wiring shall be smaller than #12 AWG. Wiring shall be protected with tape or tubing at all points where abrasion is liable to occur. All wiring shall be concealed within fixture construction.

Lighting shall be LED unless otherwise noted. Provide lamps and drivers as listed in the lighting fixture schedule or equals if equals are allowed.

Light fixtures tagged 'EMG' to be provided with emergency ballasts.

2.15 EMERGENCY LIGHTING UNITS

Provide fully automatic operation on power failure. Supply 6 volt power with minimum operating time of 1–1/2 hours with both 10 watt sealed beams on.

Provide nickel cadmium battery rated at 16 ampere hours, fully automatic charger with automatic high and low rates, built–in test switch, local sealed beam lights, transfer relay, high rate charge indicator, battery state indicator, and mounting brackets.

PART 3 – EXECUTION

3.01 FIRE STOPS

All penetrations through fire rated walls, ceilings or floors in which raceways and wiring pass shall be sealed with a UL approved fire–stop fitting classified for an hourly rating equal to the rating of the wall, ceiling or floor.

3.02 NOT USED

3.03 SUPPORT INSTALLATION

Fasten hanger rods, conduit clamps, and outlet and junction boxes to building structure using precast insert system, expansion anchors, preset inserts or beam clamps.

Use expansion anchors or preset inserts in solid masonry walls, self–drilling anchors or expansion anchor on concrete surfaces; sheet metal screws in sheet metal studs; and wood screws in wood construction.

Do not fasten supports to piping, ductwork, mechanical equipment, or conduit.

Do not use powder–actuated anchors.

Do not drill structural steel or concrete members.

Fabricate supports from structural steel or steel channel, rigidly welded or bolted to present a neat appearance. Use hexagon head bolts with spring lock washers under all nuts.

In wet locations install free–standing electrical equipment on concrete pads.

Install surface–mounted cabinets and panelboards with minimum of four anchors. Provide steel channel supports to stand cabinet one inch off wall.

Bridge studs top and bottom with channels to support flush–mounted cabinets and panelboards in stud walls.

3.04 GENERAL WIRING METHODS

Use no wire smaller than 12 AWG for power and lighting circuits, and no smaller than 14 AWG for control wiring.

Use 10 AWG conductor for 20 ampere, 120 volt branch circuit home runs longer than 75 feet, and for 20 ampere.

Place an equal number of conductors for each phase of a circuit in same raceway or cable.

Splice only in junction or outlet boxes.

Neatly train and lace wiring inside boxes, equipment, and panelboards.

Make Conductor lengths for parallel circuits equal.

All wires and cables shall be continuous from origin to destination without running splices. At the end of these wires and cables, a sufficient slack shall be left as may be required for making proper connections.

No grease or other component which contains acids shall be used in pulling wires and cables.

Where solid conductors are to be connected directly to the devices without the use of lugs, such as occurs at lighting switches and plug receptacles, the wire shall be formed into a loop to fit around the screw.

3.05 WIRING INSTALLATION IN RACEWAYS

Pull all conductors into a raceway at the same time. Use UL listed wire pulling lubricate for pulling 4 AWG and larger wires.

Install wire in raceway after all mechanical work likely to injure conductors has been completed.

Completely and thoroughly swab raceway system before installing conductors.

3.06 CABLE INSTALLATION

Provide protection for exposed cables where subject to damage.

Support cables above accessible ceilings do not rest on ceiling tiles. Use spring metal clips or cable ties to support cables from structure. Include bridle rings or drive rings.

Use suitable cable fittings and connectors.

Use solderless pressure connectors with insulating covers for copper wire splices and taps, 8 AWG and smaller. For 10 AWG and smaller, use insulated spring wire connectors with plastic caps.

Use split bolt connectors for copper wire splices and taps, 6 AWG and larger. Tape uninsulated conductors and connectors with electrical tape to 150 percent of the insulation value of conductor.

Thoroughly clean wires before installing lugs and connectors.

Make splices, taps and terminations to carry full ampacity of conductors without perceptible temperature rise.

Terminate spare conductors with electrical tape.

3.07 FIELD QUALITY CONTROL

Inspect wire and cable for physical damage and proper connection.

Torque test conductor connections and terminations to manufacturer's recommended values.

Perform continuity test on all power and equipment branch circuit conductors. Verify proper phasing connections.

Conduits must be swabbed out and made thoroughly dry before pulling wire and cable.

3.08 HANGERS AND ATTACHMENTS

In general, the following methods of fastening of supports to building structure shall be used.

Bolts and expansion shields to be used in concrete slabs where weight does not exceed 100 pounds per fastening.

Inserts to be used in lightweight concrete structural slabs where weight does not exceed 300 pounds per fastening.

Inserts to be used in heavyweight concrete structural slabs where weight does not exceed 500 pounds per fastening.

Where the aforementioned fastening methods are not applicable or where inserts have for any reason not been provided, supply a steel fishplate (1/4" thick with area required) with thru–bolt for each fastening. Fishplate assembly shall be chased into slab and grouted flush with top of slab.

Provide such channel or angle iron members as may be necessary to bridge between structural steel and receive supports for fastening. Such auxiliary steel shall be welded to the structural steel.

Supporting racks of angle iron, flat iron and channel iron members shall be provided for electrical work indicated as being supported from walls where such walls are found to be incapable of supporting the weight.

Where provided, supporting racks shall be rigidly bolted or welded together and adequately braced to provide a substantial structure. Racks shall be of ample size to provide for a workmanlike arrangement of all equipment thereon.

No metal enclosures of equipment, etc. for surface installation shall be mounted directly on any wall. Provide flat bar members for a minimum of 1/4" space between the wall and metal enclosure shall be installed.

3.09 LOCATION OF OUTLETS

Coordinate work with other trades so that exact roughing locations are available for all devices and equipment.

Locations shown on drawings are subject to modification due to conditions arising during construction. Such changes shall be executed as part of the work of this Section. Verify locations shown on drawings with Architect and/or Owner, correcting discrepancies as they arise, all at no additional cost to the Owner.

Outlets in equipment spaces shall be roughed after final location of piping and equipment has been established.

Dimensions scaled from Electrical or Mechanical Drawings shall not be relied on in locating outlets. Use only Architectural Drawings for the determination of measurement of work in the field.

3.10 RACEWAY INSTALLATION

Exposed raceways passing through walls, floors or ceilings shall be fitted with escutcheon plates.

Installation of raceways shall not weaken the building elements, and shall not affect their fire resistance rating.

Install conduit and raceways plumb and level, parallel to lines of building. All conduits and raceways to be concealed, except as noted on the Drawings. Conduits that cannot be concealed shall be brought to the attention of the Architect so he can render an alternate conduit method. Use of surface mounted raceways shall be approved only by Architect and Engineer.

Cut conduit square using a saw or pipe cutter; de–burr cut ends.

Bring conduit to the shoulder of fittings and couplings and fasten securely.

Use conduit hubs or sealing locknuts for fastening conduit to cast boxes, and for fastening conduit to sheet metal boxes in damp or wet locations.

Install no more than the equivalent of four 90–degree bends between boxes.

Use conduit fittings to make sharp changes in direction, as around beams.

Use hydraulic bender or factory elbows for bends in conduit larger than 2 inch size.

Avoid moisture traps where possible; where unavoidable, provide junction box with drain fitting at conduit low point.

Use suitable conduit caps to protect installed conduit against entrance of dirt and moisture.

Provide No. 12 AWG insulated conductor or suitable pull string in empty conduit, except sleeves and nipples.

Install expansion joints where conduit crosses building expansion joints.

Where conduit penetrates fire–rated walls and floors, provide mechanical firestop fittings with UL listed fire rating equal to wall or floor rating.

3.11 CIRCUITING

Connect each device, fixture or equipment item to the appropriate poles of the proper panel.

Arrange branch circuits to balance the loads on the phases of the panel feeder. Where 120 volt, 3 or 4 wire circuits are indicated, the circuit shall consist of separate phases and a common neutral. Maximum phase unbalance shall not exceed 10%

3.12 GROUNDING CABLES

Lay grounding cables slack to prevent damage. Connections to have bright, clean, metal contact. Connections to be readily accessible for inspection and for checking resistance of ground system.

3.15 CONDUIT SIZING, ARRANGEMENT, AND SUPPORT

Size conduit for conductor type and number installed, 3/4 inch minimum size.

Arrange conduit to maintain headroom and present a neat appearance.

Route exposed conduit and conduit above accessible ceilings, parallel and perpendicular to walls and adjacent piping.

Maintain minimum 6 inch clearance between conduit and piping. Maintain 12 inch clearance between conduit and heat sources such as flues, steam pipes, and heating appliances.

Arrange conduit supports to prevent distortion or alignment by wire pulling operations. Fasten conduit using galvanized straps, lay–in adjustable hangers, clevis hangers, or bolted split stamped galvanized hangers.

Group conduit in parallel runs where practical and use conduit rack constructed of steel channel with conduit straps or clamps. Provide space for 25 percent additional conduit.

Do not fasten conduit with wire or perforated pipe straps. Remove all wire used for temporary conduit support during construction, before conductors are pulled.

Support conduit at a maximum of 10 feet on center. Refer to the following articles of the NEC:

1.	Intermediate Metal Conduit:	Art 342.30
2.	Rigid Metal Conduit:	Art 344.30
3.	Electrical Metallic Tubing:	Art 358.30
4.	Rigid Polyvinyl Chloride Conduit:	Art 352.30

All conduits and cable assemblies are to be concealed unless otherwise noted.

3.16 CONTINUITY

Complete raceway systems shall become metallically continuous and shall be thoroughly grounded in accordance with requirements of the National Electrical Code and its latest revisions.

3.17 CONDUIT/RACEWAY SCHEDULE

Wet Interior Locations: Rigid steel.

Dry Concealed Locations: EMT.

Dry Exposed Locations: Rigid steel or IMT, surface metal raceways.

3.18 DEVICE INSTALLATION

Install wall switches 48 inches above floor, OFF position down.

Install wall dimmers 48 inches above floor. Separate adjacent dimmers as instructed by manufacturer to prevent a requirement for derating of dimmers. Do not use common neutrals.

Install convenience receptacles 18 inches above floor, 6 inches above counter backsplash grounding pole on bottom.

Install specific–use receptacles at heights shown on Contract Drawings.

Install decorative plates on switch, receptacle, and blank outlets in finished are areas, using jumbo size plates for outlets installed in masonry walls.

Install galvanized steel plates on outlet boxes and junction boxes in unfinished areas, above accessible ceilings, and on surface–mounted outlets.

Install devices and wall plates flush and level.

Verify all mounting heights with architectural drawings.

Coordinate device locations with architectural details.

3.19 COORDINATION OF BOX LOCATIONS

Provide electrical boxes as shown on drawings, and as required for splices, taps, wire pulling, equipment connections, and code compliance.

Electrical box locations shown on Contract Drawings are approximate unless dimensioned. Verify location of boxes and outlets prior to rough–in.

Locate and install boxes to allow access.

Locate and install to maintain headroom and to present a neat appearance.

Locate boxes in masonry walls to require minimum cutting. Coordinate masonry cutting to achieve neat openings for boxes.

Provide knockout closures for unused openings.

Support boxes independently of conduit except for cast boxes that are connected to two non–flexable metal conduits, both supported within 12 inches of box.

Provide recessed outlet boxes in finished areas; secure boxes to interior wall and partition studs, accurately positioning to allow for surface finish thickness. Use stamped steel stud bridges for flush outlets in hollow stud wall, and adjustable steel channel fasteners for flush ceiling outlet boxes.

Align wall–mounted outlet boxes for switches, and similar devices.

Boxes shall set plumb and true in building surface and furnished with suitable plaster rings where so required.

3.20 PULL AND JUNCTION BOX INSTALLATION

Locate pull boxes and junction boxes above accessible ceilings or in unfinished areas.

Support pull and junction boxes independent of conduit.

3.21 PANELBOARD INSTALLATION

Provide mounting brackets, busbar drilling, and filler pieces for unused spaces.

Prepare and affix typewritten directory to inside cover of panelboard indicating loads controlled by each circuit.

3.22 LIGHTING

Verify all ceiling types and construction before ordering lighting fixtures to confirm that final ceilings approved for installation and the lighting fixtures are compatible to each other in all respects.

Lighting fixtures shall not be installed until finished coat of paint has been applied to ceilings and walls and allowed to dry thoroughly. Any fixtures, reflectors, or glassware broken prior to the time of final inspection must be restored without cost to the Owner. Just prior to occupancy, all fixtures shall be relamped with new lamps, if needed.

Crosskey Architects LLC
Architecture Preservation Planning
750 Main Street Hartford, CT 06103
T: (860)724-3000 F: (860)724-3013

Mansfield Middle School Cafeteria

Street, Mansfield, CT

Town of Mansfield

NOT FOR CONSTRUCTION

Drawn: MST
Date: 03/18/2026
Revisions

Electrical Specifications

E-200

Acorn Consulting Engineers Inc.
- Mechanical Electrical Engineering for Building Systems -
P.O. Box 311 • Farms Village Plaza • 244 Farms Village Road
West Simsbury, CT 06092 • (860) 651-1949 • fax (860) 651-1957
www.acornengineers.com

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