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4/18/2025 9:02:27 AM 12" = 1'-0"

CANYONS SCHOOL DISTRICT

ALTARA ELEMENTARY REMODEL

800 E 11000 S BASECAMP 1

SANDY, UTAH

PROJECT CONTACTS

OWNER

CANYONS SCHOOL DISTRICT
9361 S 300 EAST
SANDY, UTAH 84070
(801) 826-5000

ARCHITECTURAL

KMA ARCHITECTS, INC.
170 N MAIN STREET
SPANISH FORK, UTAH 84660
(801) 377-5062

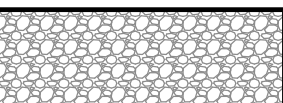
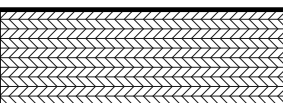

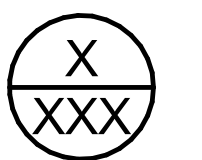
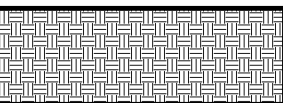
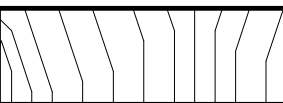

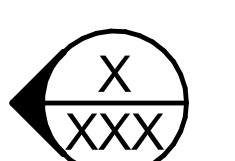

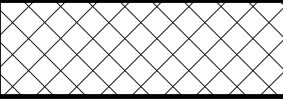
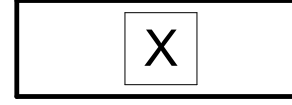
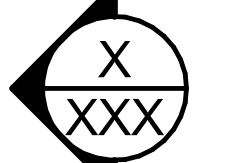
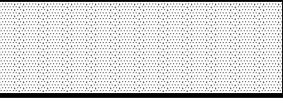
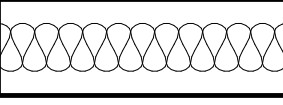
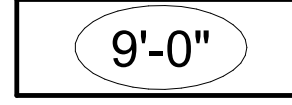
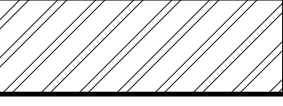
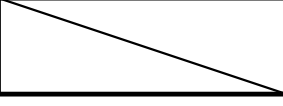

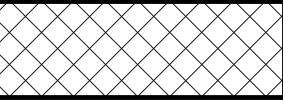
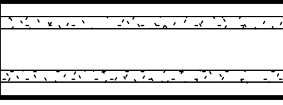
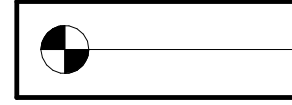
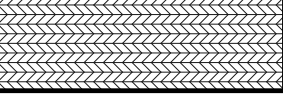

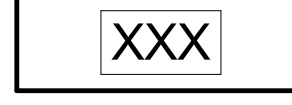
MECHANICAL

OLSEN & PETERSON ENGINEERING
14 EAST 2700 SOUTH
SALT LAKE CITY, UTAH 84115
(801) 486-4646

ELECTRICAL

RESOLUT
181 EAST 5600 SOUTH
MURRAY, UTAH 84107
(801) 530-3148

GRAPHIC SYMBOLS

	ENGINEERED FILL		PLYWOOD		WALLTYPE TAG		DETAIL TAG
	EARTH		HARDWOOD		DOOR NUMBER		ELEVATION MARK
	CONCRETE		RIGID INSULATION		WINDOW TYPE		SECTION MARK
	ASPHALT		BATT INSULATION		CEILING HEIGHT		
	BRICK VENEER		BLOCKING		SHEET NOTE		
	STONE VENEER		GYPSUM BOARD		BUILDING ELEVATION MARK		
	WOOD STUDS		PROPERTY LINE		ROOM NUMBER		

PROJECT DATA

REMODEL AREAS	
FACULTY AND CONFERENCE ROOM AREA	967 SQ. FT.
OFFICE AND BOOK ROOM AREA	314 SQ. FT.
TOTAL FLOOR AREA	1,281 SQ. FT.
INTERNATIONAL BUILDING CODE	- 2021
TYPE OF CONSTRUCTION	- II B
BUILDING OCCUPANCY	- E

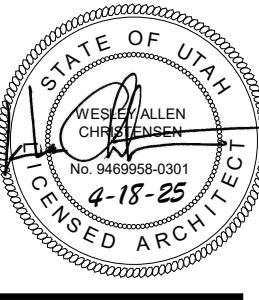
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VICINITY MAP



170 NORTH MAIN STREET
SPANISH FORK, UTAH 84660
WWW.KMAARCHITECTS.COM



REVISIONS:

CANYON SCHOOL DISTRICT
ALTARA ELEMENTARY REMODEL
800 E 11000 S BASECAMP 1
SANDY, UT

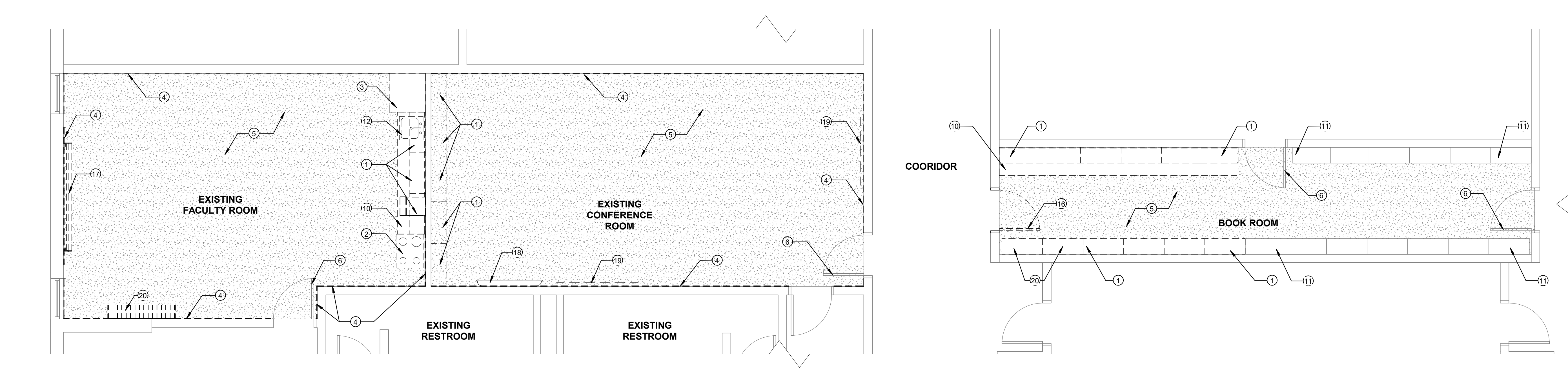
PROJECT TITLE
CANYON SCHOOL DISTRICT
ALTARA ELEMENTARY REMODEL
800 E 11000 S BASECAMP 1

DRAWN BY: CH
CHECKED BY: WC
DATE: APRIL 2025
PROJECT #: 175125

TITLE

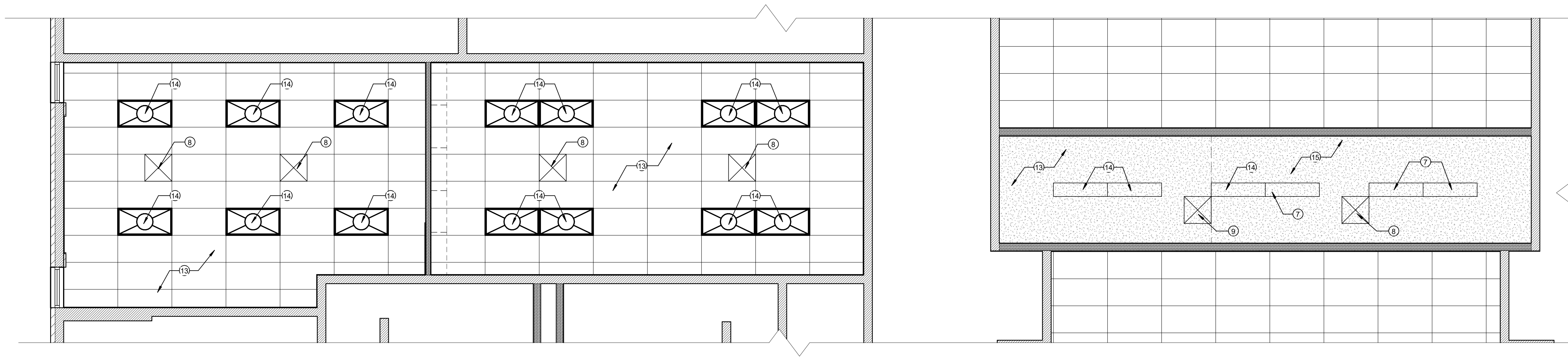
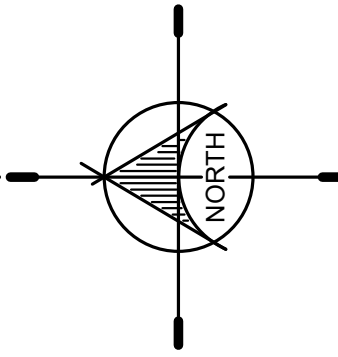
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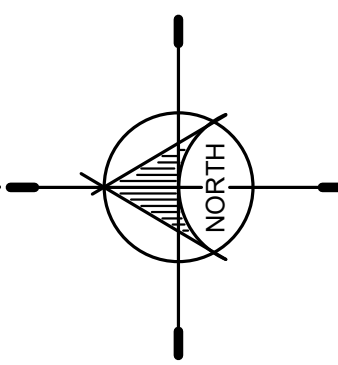
DEMO PLAN

1/4" = 1'-0"



DEMO MAIN FLOOR REFLECTED

1/4" = 1'-0"



SALVAGE NOTES

CONTRACTOR TO COORDINATE WITH DISTRICT
THE REMOVAL OF ALL SALVAGED ITEMS.
CONTRACTOR TO PROTECT DURING REMOVAL.

SHEET NOTES

- EXISTING MILLWORK TO BE REMOVED.
- EXISTING RANGE TO BE REMOVED AND RETURNED TO OWNER
- EXISTING REFRIGERATOR TO BE REMOVED
- EXISTING WALL CARPET TO BE REMOVED
- EXISTING FLOORING TO REMAIN. PATCH AND REPAIR AS REQUIRED DUE TO DEMOLITION AND NEW CONSTRUCTION.
- EXISTING DOOR AND FRAME TO REMAIN.
- EXISTING LIGHT FIXTURES TO REMAIN - SEE ELECTRICAL SHEETS.
- EXISTING MECHANICAL DIFFUSER TO REMAIN - SEE MECHANICAL SHEETS.
- EXISTING MECHANICAL DUCTWORK TO BE REMOVED - SEE MECHANICAL SHEETS.
- EXISTING COUNTERTOP TO BE REMOVED
- EXISTING MILLWORK TO REMAIN.
- EXISTING PLUMBING FIXTURES TO BE REMOVED - SEE PLUMBING SHEETS.
- EXISTING CEILING TO BE DEMOLISHED
- EXISTING LIGHT FIXTURE TO BE REMOVED - SEE ELECTRICAL SHEET
- EXISTING CEILING TO REMAIN. PATCH AND REPAIR AS REQUIRED DUE TO DEMOLITION AND NEW CONSTRUCTION.
- EXISTING DOOR TO BE REMOVED. EXISTING DOOR FRAME TO REMAIN.
- WALL MOUNTED PROJECTOR SCREEN TO BE REMOVED AND RETURNED TO OWNER
- EXISTING T.V. TO BE REMOVED AND RETURNED TO OWNER
- EXISTING MARKER BOARD TO BE REMOVED AND RETURNED TO OWNER
- EXISTING MILLWORK TO BE RELOCATED

GENERAL DEMOLITION NOTES

- ALL UTILITIES WILL BE CAPPED DUE TO DEMOLITION OF EXISTING BUILDINGS - COORDINATE WITH PLUMBING DRAWINGS.
- STAGING TO BE DETERMINED BY GENERAL CONTRACTOR. (COSTS FOR TEMPORARY STAGING BY CONTRACTOR.)
- CONSTRUCTION AND DEMOLITION ACCESS TO BE DETERMINED BY GENERAL CONTRACTOR AND OWNER.
- THE DISTRICT RESERVES THE RIGHT TO RETAIN AND REMOVE ANY SALVEAGABLE MATERIAL PRIOR TO DEMOLITION. CONTRACTOR IS TO COORDINATE WITH THE SCHOOL DISTRICT ANY MATERIALS THAT THE DISTRICT WILL RETAIN PRIOR TO THE COMMENCEMENT OF DEMOLITION.
- CONTRACTOR SHALL COORDINATE DEMOLITION WITH NEW FLOOR PLAN. IF CONFLICTS ARISE CONTACT THE ARCHITECT FOR CLARIFICATION.
- PATCH AND REPAIR EXISTING CONSTRUCTION AS REQUIRED DUE TO NEW CONSTRUCTION AND DEMOLITION.
- CONTRACTOR SHALL REVIEW THE PLUMBING, MECHANICAL, AND ELECTRICAL SHEETS FOR ADDITIONAL INFORMATION ON THE DEMOLITION OF PARTS OF THE BUILDING.
- CONTRACTOR TO PATCH AND REPAIR ANY ROOF PENETRATIONS DUE TO CONSTRUCTION



REVISIONS:

CANYON SCHOOL DISTRICT
SANDY, UT

PROJECT TITLE
ALTARA ELEMENTARY REMODEL
1800 E 11000 S BASECAMP 1

PROJECT TITLE

DRAWN BY: CH
CHECKED BY: WC
DATE: APRIL 2025
PROJECT #: 175125

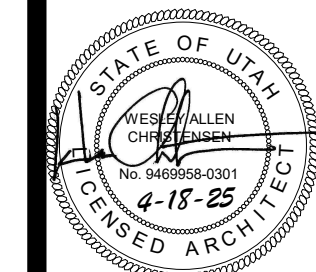
A0.1

170 NORTH MAIN STREET
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SANDY, UT

A1.1

GLAZING SCHEDULE

1

- 1/4" TEMPERED CLEAR GLAZING

DOOR HARWARE GROUP 1

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MFR
3	EA	HINGE	5BB1 4.5 X 4.5	652	IVE
1	EA	ENTRANCE LOCK	ND53PD	526	SCH
3	EA	SILENCER	SR64	GRY	IVE

DOOR SCHEDULE

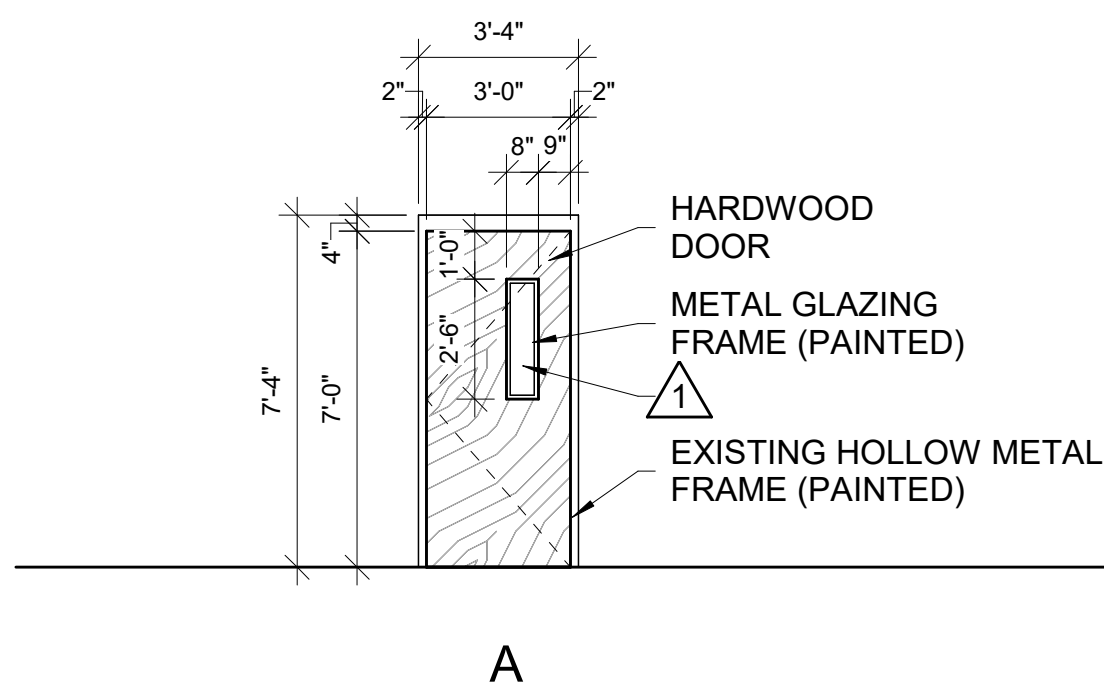
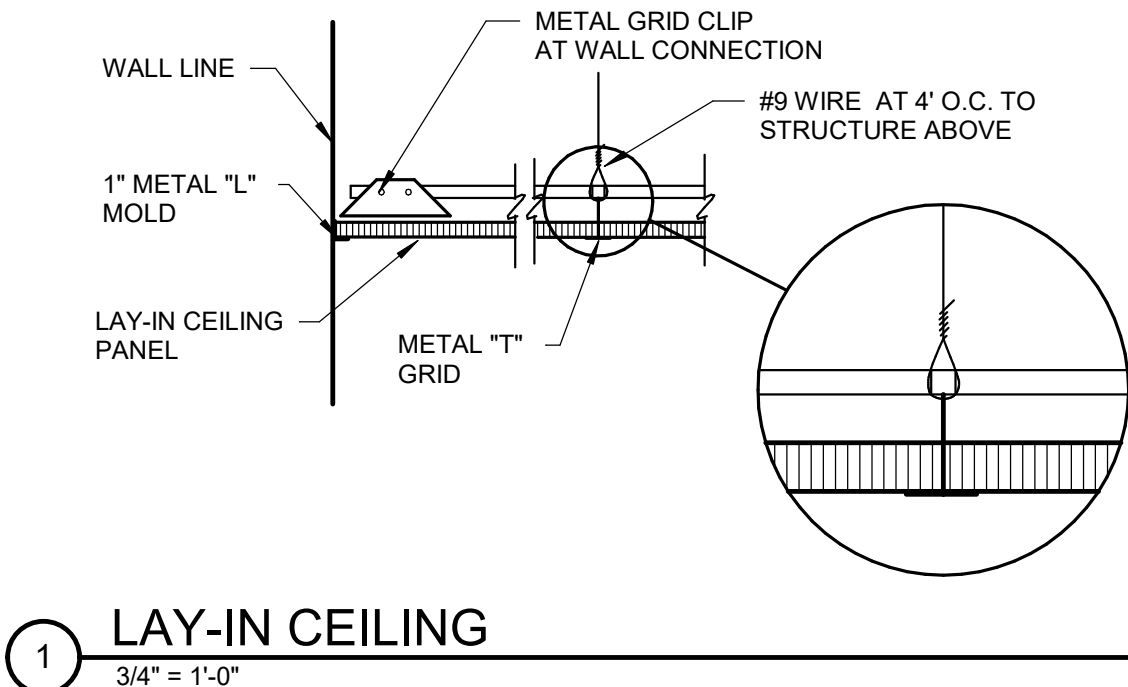
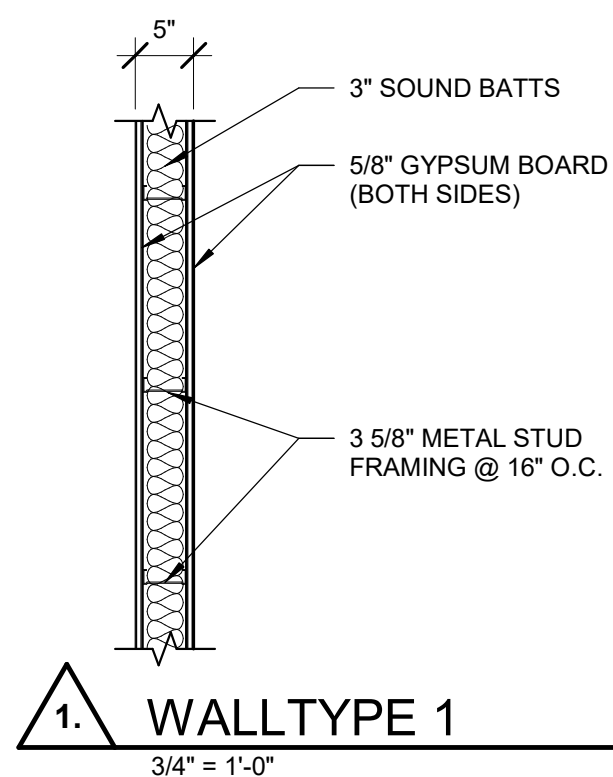
GENERAL SCHEDULE NOTES:

- COORDINATE WITH OWNER, SPECIFICATIONS AND ELECTRICAL DOCUMENTS.
(CONTACT THE ARCHITECT IF INFORMATION CONFLICTS)
- ALL EXTERIOR DOORS ARE TO BE INSULATED.
- ADA ACTUATORS AND BARRIER FREE HARDWARE ARE TO WORK INCONJUNCTION WITH CARD ACCESS CONTROL SYSTEM.
- FIELD VERIFY ALL DOOR OPENINGS AND HEAD/JAMB THICKNESSES PRIOR TO MANUFACTURING.
- DOOR SYSTEMS ARE TO BE INSTALLED AS PER HEAD & JAMB DETAILS. DETAILS ARE SHOWN TO COVER ALL EXPOSED OPENINGS & CONNECTIONS.
(CONTACT THE ARCHITECT IF INFORMATION CONFLICTS)

NOTES:

(1) - CARD READER
(2) - ADA ACTUATORS & BARRIER FREE HARDWARE
(3) - MAGNETIC HOLD OPENS
(4) - REMOVABLE MULLIONS
(5) - INSULATED ROLL UP DOORS

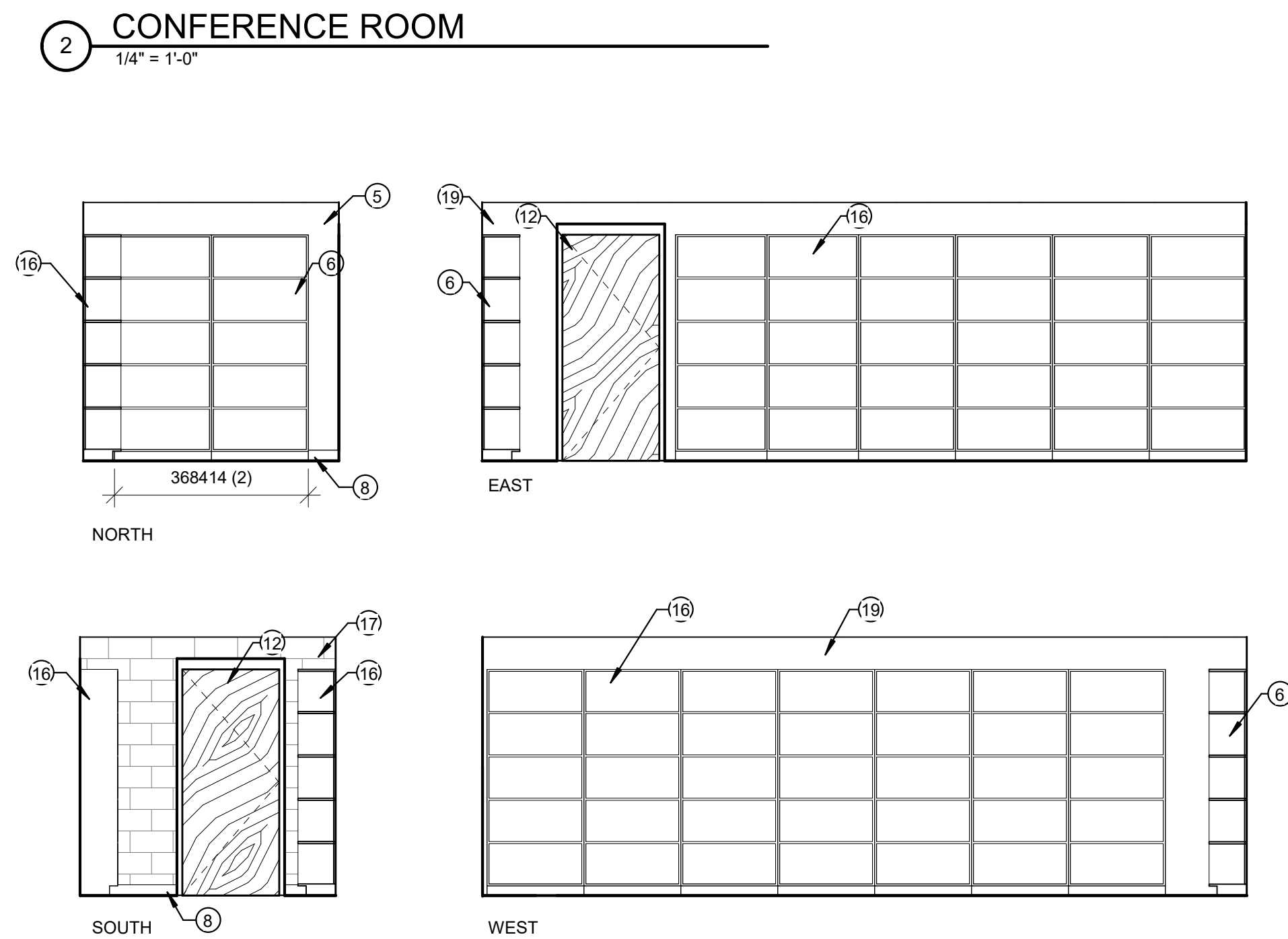
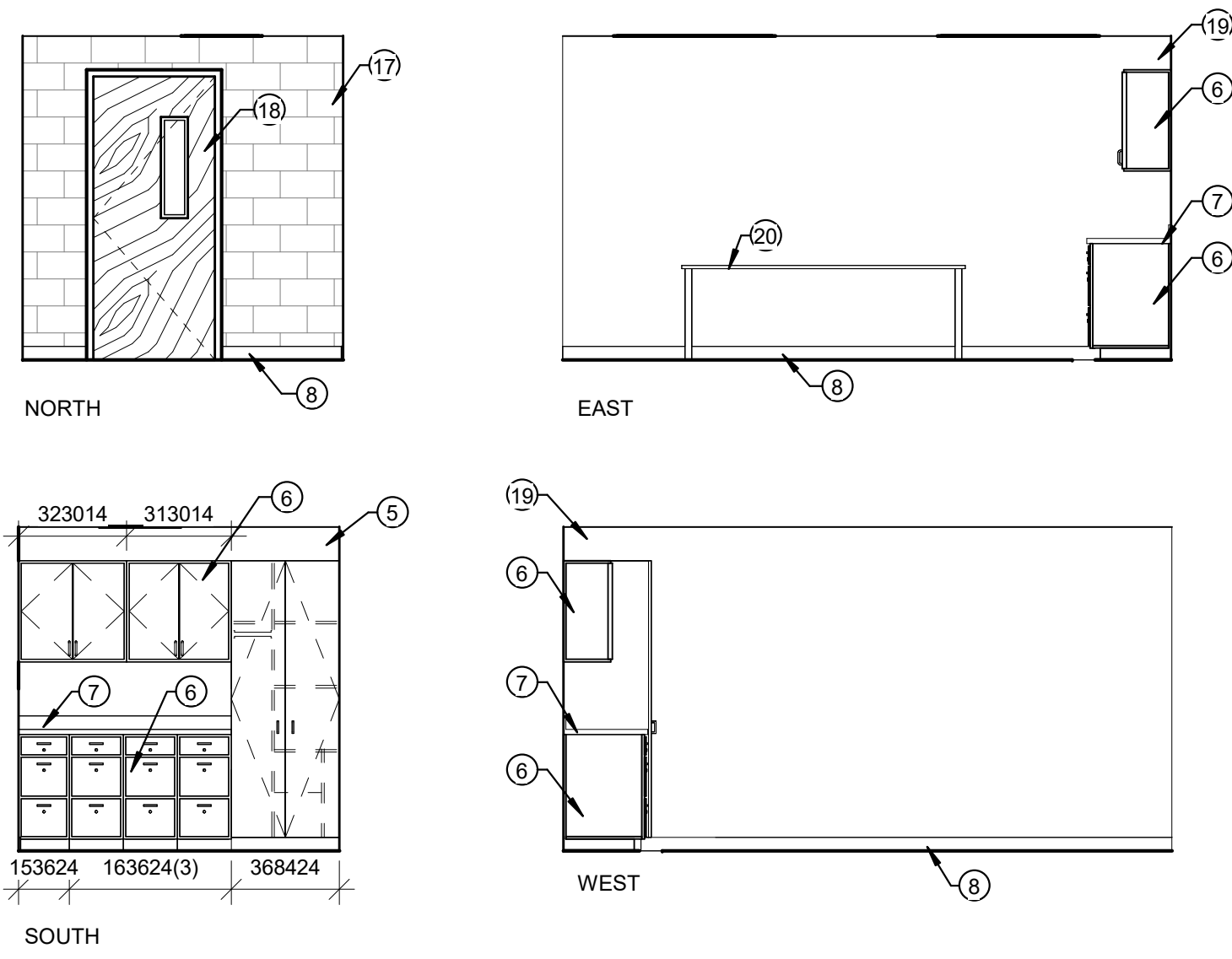
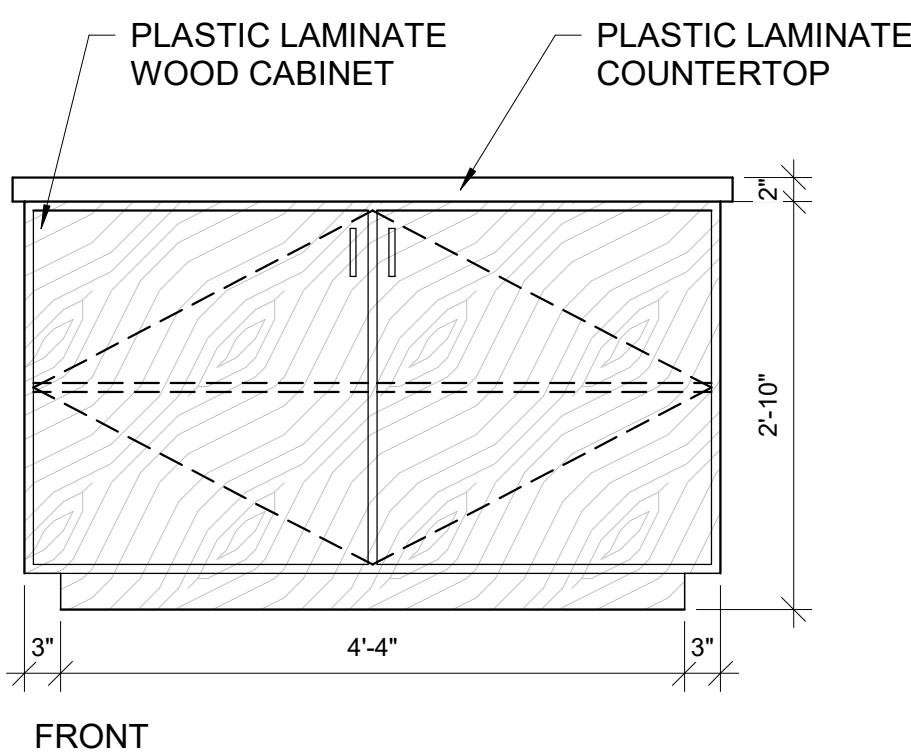
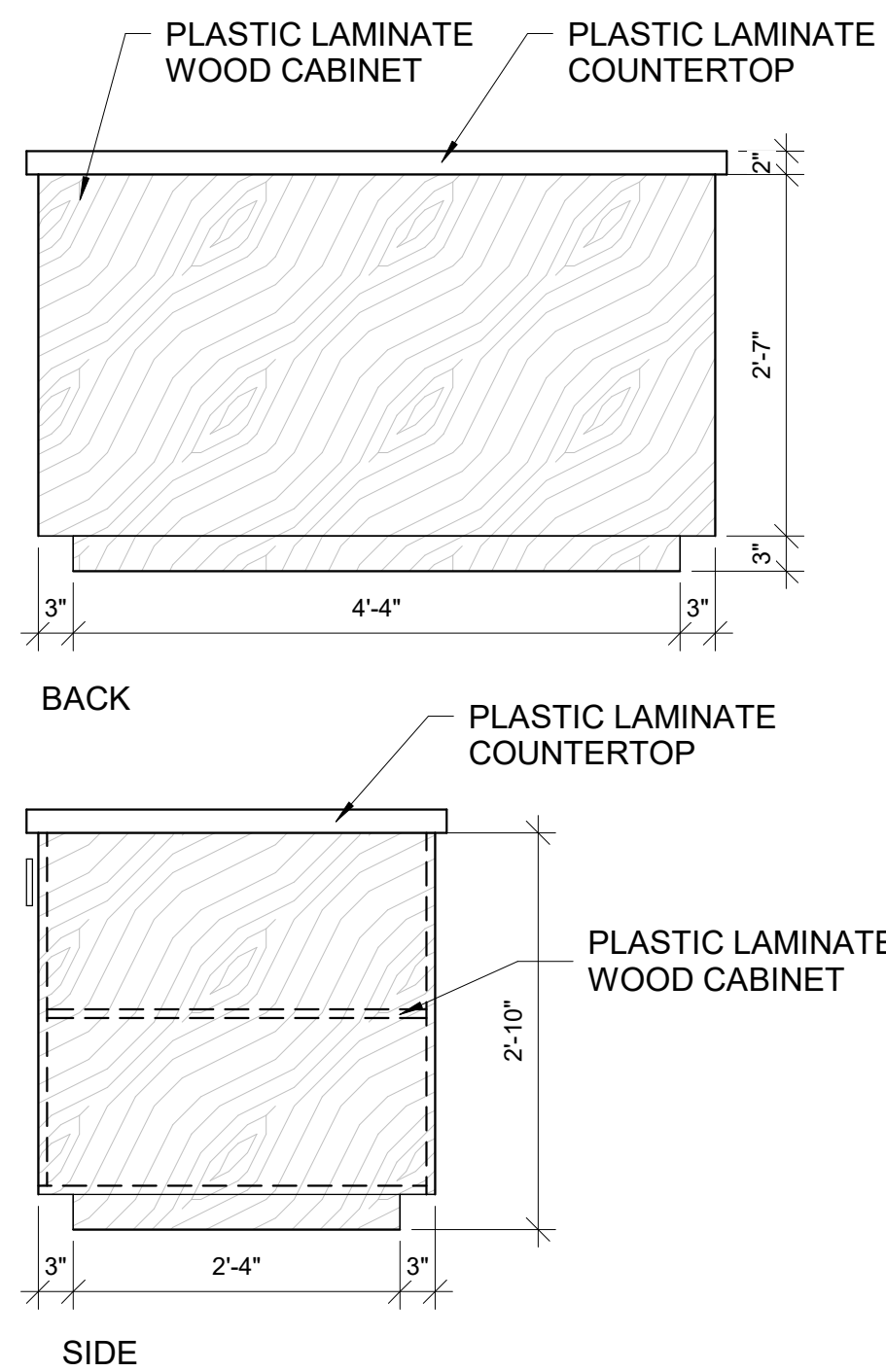
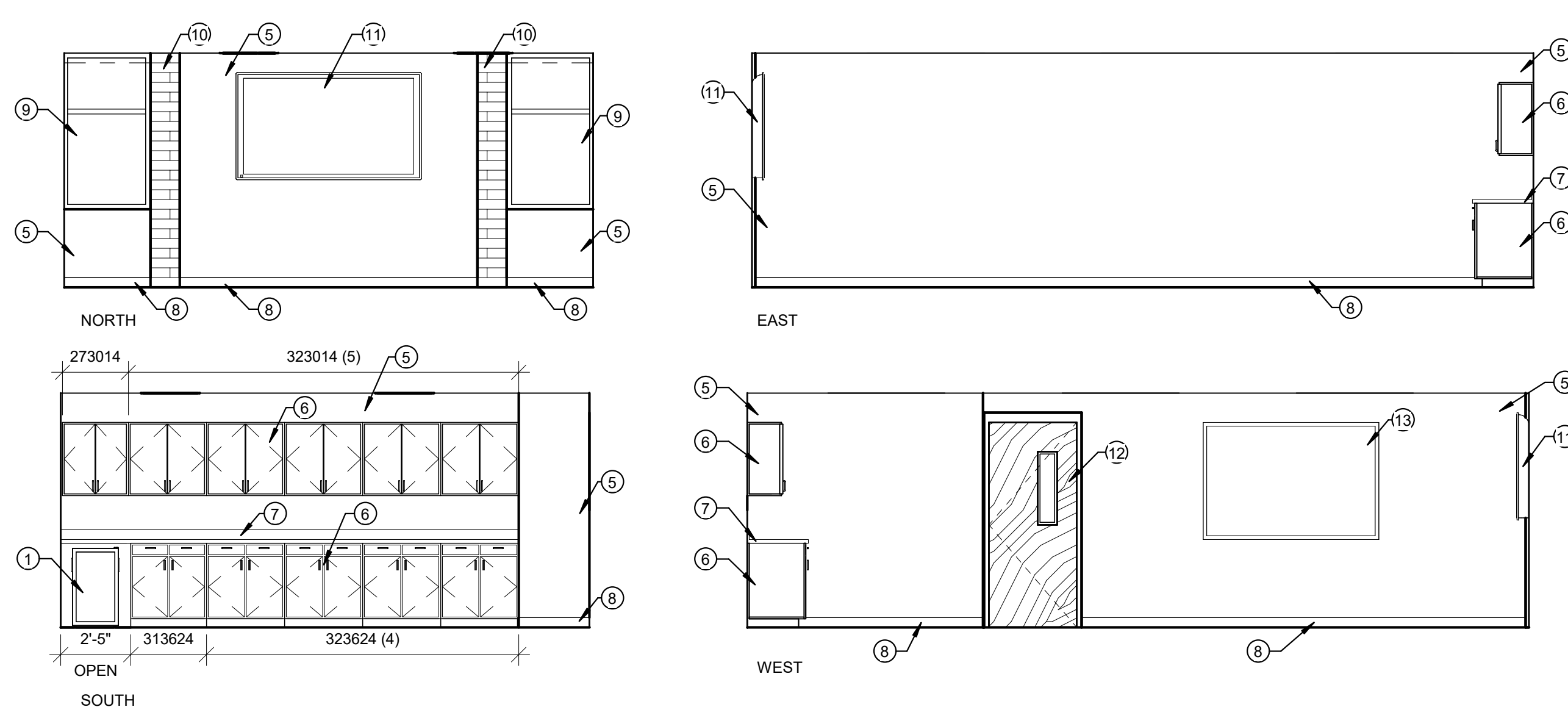
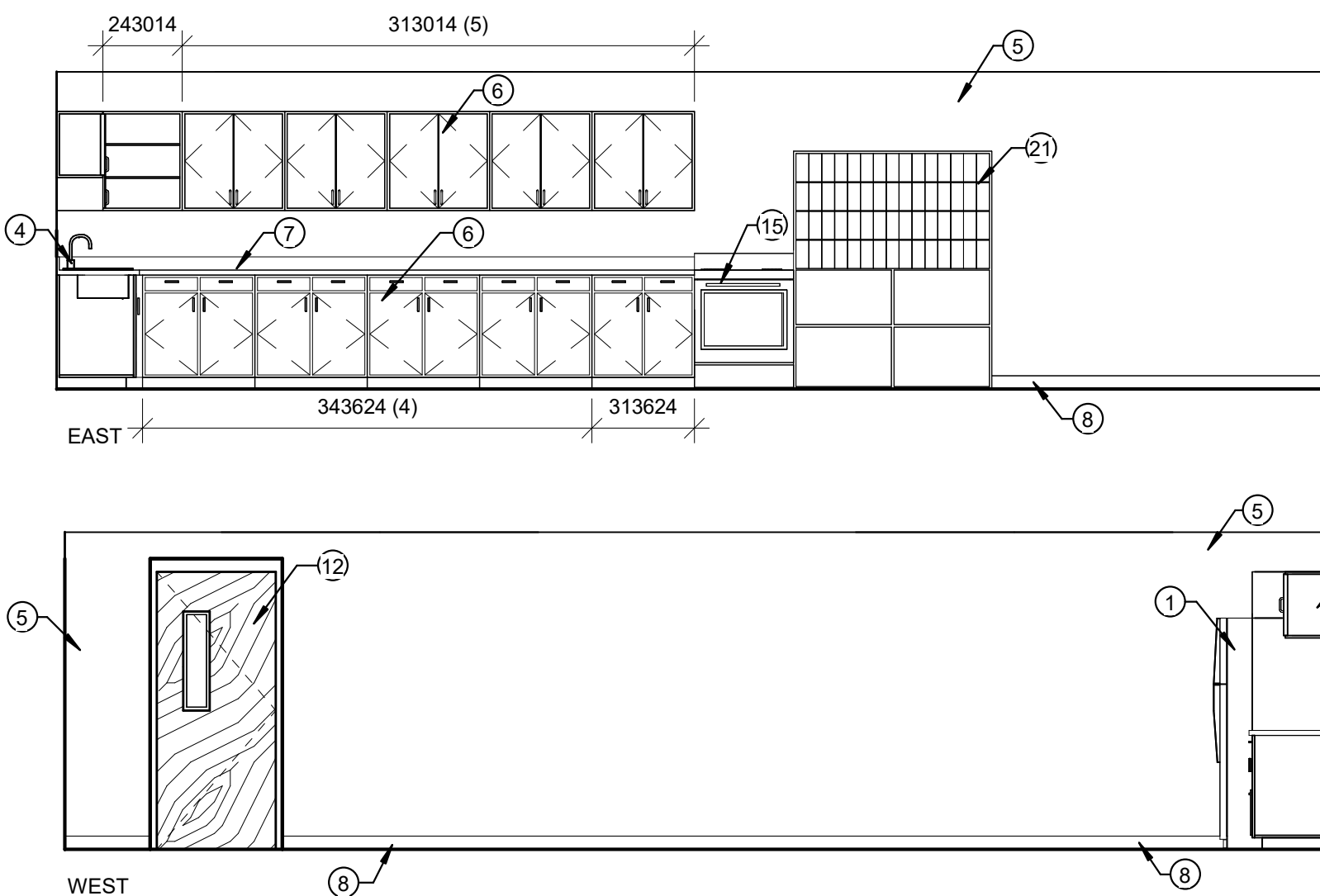
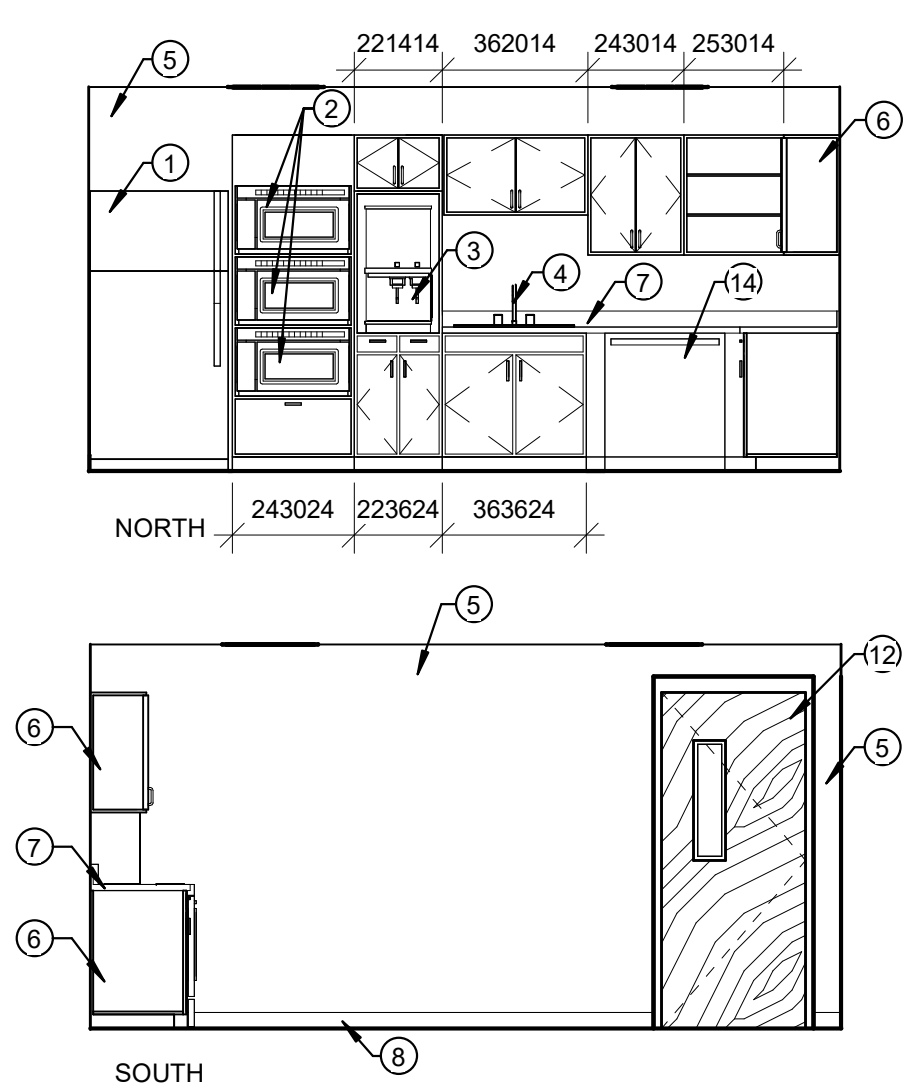
MARK	TYPE	DOOR INFORMATION			ASSEMBLY		MATERIAL		HAND	DETAILS		HARDWARE GROUP	LABEL	ELECTRIFIED	NOTES	MARK
		WIDTH	HEIGHT	THICK	SINGLE	PAIR	FRAME	DOOR		HEAD	JAMB					
100	C	3' - 0"	7' - 0"	2"	X		MTL	WOOD	RH			1				100
Grand total: 1																



HARDWOOD DOOR TYPE

SHEET NOTES

- REFRIGERATOR - FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR
- MICROWAVE (N.I.C.)
- ICE MACHINE (N.I.C.)
- PLUMBING FIXTURES - SEE PLUMBING SHEETS
- TEXTURED AND PAINTED GYPSUM BOARD - COLOR AS SELECTED BY ARCHITECT.
- MILLWORK - SEE SPECS.
- PLASTIC LAMINATE COUNTERTOP WITH BACKSPLASH - SEE SPECS.
- BASE - SEE FINISH SCHEDULE
- EXISTING ALUMINUM WINDOW TO REMAIN.
- EXISTING MASONRY WALL TO REMAIN.
- TV (N.I.C.)
- EXISTING DOOR AND FRAME TO REMAIN.
- MARKER BOARD - SEE SPECS.
- DISHWASHER - FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR
- RANGE - FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR
- EXISTING MILLWORK TO REMAIN.
- EXISTING MASONRY WALL TO REMAIN.
- HOLLOW METAL DOOR FRAME (PAINTED) AND HARDWOOD DOOR - SEE DOOR SCHEDULE.
- EXISTING WOOD FRAME WALL TO REMAIN
- DESK - FURNISHED BY OWNER AND INSTALLED BY CONTRACTOR
- EXISTING RELOCATED MILLWORK



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MECHANICAL SPECIFICATIONS

SECTION 23 0100 GENERAL PROVISIONS

- GENERAL CONDITIONS:**
THE GENERAL CONDITIONS OF THE CONTRACT ARE A PART OF THIS SUB-CONTRACT.

BASIC BID:
SHALL INCLUDE ALL LABOR AND MATERIALS SPECIFIED IN THIS DIVISION.

SCOPE OF WORK:
THE WORK TO BE DONE UNDER THIS SECTION INCLUDES:

- SYSTEM COMMISSIONING
- SYSTEM BALANCING
- PIPING & PLUMBING SYSTEMS
- INSULATION SYSTEMS
- FIRE SPRINKLER PROTECTION SYSTEMS
- HEATING AND COOLING SYSTEMS
- AIR DISTRIBUTION SYSTEMS
- AUTOMATIC TEMPERATURE CONTROL SYSTEMS

ORDINANCES:
THE WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE LOCAL AND STATE PLUMBING AND ENERGY CODES.

FEES & PERMITS:
THIS CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND PAY ALL FEES REQUIRED IN CONNECTION WITH THE WORK.

MATERIALS, EQUIPMENT AND ACCESSORIES:
UNLESS OTHERWISE SPECIFIED, ALL EQUIPMENT, ACCESSORIES, AND MATERIALS SHALL BE NEW AND UNDAMAGED. WHERE TWO OR MORE UNITS OF THE SAME CLASS ARE REQUIRED, THEY SHALL BE PRODUCTS OF A SINGLE MANUFACTURER.

REMOVAL OF DEBRIS, ETC.:
UPON COMPLETION OF THIS DIVISION OF THE WORK, REMOVE ALL SURPLUS MATERIALS AND RUBBISH.

CUTTING AND PATCHING:
ANY CUTTING, PATCHING, OR FILLING NECESSARY FOR THE PROPER EXECUTION OF THIS WORK SHALL BE DONE BY THIS CONTRACTOR. NO ROUGH OR UNSIGHTLY WORK WILL BE ALLOWED, AND CUTTING OF STRUCTURAL MEMBERS SHALL BE DONE ONLY ON APPROVAL OF THE ARCHITECT.

SLEEVES AND COLLARS:
ALL PIPES AND DUCTS PASSING THRU FLOORS, BEAMS, OR WALLS ARE TO BE FITTED WITH GALVANIZED IRON SLEEVES. SLEEVES THRU FLOORS WHICH DO NOT SET ON GRADE SHALL BE SEALED WATER-TIGHT.

FLOOR AND WALL PLATES:
WHERE PIPES PASS THRU FLOOR CEILINGS, OR PARTITIONS IN THE FINISHED PART OF THE BUILDING, CHROMIUM PLATES SHALL BE PROVIDED ON ALL NEW PIPE WORK.

PIPES AND FITTINGS:
ALL PIPE AND FITTINGS SHALL BE OF THE INSIDE DIAMETER DESIGNATED. SMOOTH INSIDE, WITH OUTER AND INNER SURFACES CONCENTRIC, SOUND AND FREE FROM ALL DEFECT.

SITE INSPECTION AND EXAMINATION OF DRAWINGS:
THE CONTRACTOR SHALL CAREFULLY EXAMINE THE BUILDING SITE AND STUDY ALL DRAWINGS AND SPECIFICATIONS PERTAINING TO THE WORK BEFORE SUBMITTING A BID.

VERIFICATION OF DIMENSIONS:
BEFORE PROCEEDING WITH ANY WORK, THE CONTRACTOR SHALL CAREFULLY CHECK AND VERIFY ALL DIMENSIONS AND SHALL ASSUME FULL RESPONSIBILITY FOR THE FITTING IN OF HIS DUCTS, PIPES, AND EQUIPMENT.

RECORD DRAWINGS:
THE CONTRACTOR SHALL PROVIDE AND KEEP UP TO DATE A COMPLETE SET OF RECORD DRAWINGS.

COOPERATION WITH OTHERS:
THE CONTRACTOR SHALL SO ORGANIZE THE WORK THAT HIS PROGRESS WILL HARMONIZE WITH THE WORK OF ALL TRADES, SO THAT ALL WORK MAY PROCEED AS EXPEDITIOUSLY AS POSSIBLE.

GUARANTEE:
THE MECHANICAL AND PLUMBING SYSTEMS SHALL BE PLACED UNDER A ONE YEAR GUARANTEE AFTER DATE OF FINAL ACCEPTANCE BY THE ARCHITECT. ANY CALIBRATION, PARTS, OR LABOR NECESSARY DUE TO FAULTY INSTALLATION OR FAULTY EQUIPMENT SHALL BE REPLACED DURING THIS PERIOD AT NO COST TO THE OWNER.

SECTION 23 0500 BASIC MATERIALS & METHODS

- GENERAL:**
ALL MATERIALS SHALL BE NEW AND UNDAMAGED. INSERTS AND SLEEVES SHALL BE FURNISHED AND SET BY THIS CONTRACTOR SO THEY APPLY TO THE MECHANICAL WORK.

ALL PIPING SHALL BE SLOPED UP OR DOWN IN THE DIRECTION OF FLOW TO ELIMINATE AIR POCKETS, TRAPS AND/OR TO FACILITATE DRAINAGE.

ALL BASE MOUNTED EQUIPMENT SHALL BE MOUNTED ON CONCRETE PADS, OR WOOD OR METAL CURBS IF ROOF MOUNTED.

- PRODUCTS:**

PIPING MATERIALS:
ALL PIPING SHALL BE IN ACCORDANCE WITH THE AMERICAN SOCIETY FOR TESTING AND MATERIALS. NO FOREIGN MADE PIPING WILL BE ACCEPTED IN THIS CONSTRUCTION.

ALL COLD AND HOT DOMESTIC WATER PIPING WITHIN THE BUILDING SHALL BE TYPE 'L' COPPER WITH SOLDERED FITTINGS OR PRO-PRESS COMPRESSION FITTINGS; BURIED DOMESTIC COLD WATER PIPING SHALL BE TYPE 'K' COPPER WITH SOLDERED FITTINGS.

ALL WASTE LINES AND ALL RAINWATER PIPING BELOW GRADE SHALL BE SOLID CORE SCHEDULE 40 DRAIN, WASTE, AND VENT PVC WITH GLUED FITTINGS.

ALL WASTE LINES AND ALL RAINWATER PIPING ABOVE GROUND SHALL BE STANDARD WEIGHT AND CAST IRON PIPE. ALL JOINTS IN CAST IRON PIPE SHALL BE NO-HUB BANDED WITH 4-BAND COUPLINGS.

PIPE LOCATION AND ARRANGEMENT:
ALL WATER AND WASTE PIPING SHALL BE KEPT OUT OF CONCRETE FLOOR SLABS AND SHALL BE RUN OVERHEAD WHERE POSSIBLE.

ALL PIPING SHALL BE RACKED AND RUN TO FACILITATE MAINTENANCE WORK. UNDER NO CIRCUMSTANCES SHALL VALVES, SHOCK ABSORBERS, DRIP TRAPS, OR PIPING SPECIALTIES BE INSTALLED IN A "CLOSED SPACE".

VALVES AND STRAINERS:
ALL VALVES AND STRAINERS SHALL BE 125 PSI RATED. APPROVED VALVE MANUFACTURERS ARE CRANE, STOCKHAM, APOLLO, NIBCO, WALWORTH, POWELL, JENKINS, AND KENNEDY.

UNIONS:
GROUND JOINT UNIONS SHALL BE INSTALLED WHENEVER PIPING IS CONNECTED TO A MAJOR PIECE OF APPARATUS.

THERMOMETERS:
TEMPERATURE INDICATORS SHALL BE RED-READING 7" VARIABLE ANGLE STYLE.

PRESSURE GAUGES:
PRESSURE GAUGES SHALL BE BOURDON TUBE TYPE WITH GAGE COCKS AND SNUBBERS.

ISOLATION FITTINGS:
APPROVED ISOLATION FITTINGS SHALL BE INSTALLED AT THE JUNCTION OF ALL COPPER AND STEEL PIPING TO PREVENT ELECTROLYTIC ACTION.

MAGNETIC STARTERS:
STARTERS FOR ALL MOTORS FURNISHED UNDER THE MECHANICAL SECTION OF THE WORK WILL BE INSTALLED AND WIRED BY THE ELECTRICAL CONTRACTOR.

- EXECUTION:**

PIPE CLEANING:
ALL PIPING SYSTEMS AND COMPONENTS TO BE CHEMICALLY CLEANED AND FLUSHED PRIOR TO OPERATING THE SYSTEM.

EQUIPMENT LUBRICATION:
ALL BEARINGS ON MOTORS, FANS, PUMPS, ETC. SHALL BE PROPERLY LUBRICATED PRIOR TO OPERATION.

PIPE I.D., EQUIPMENT I.D., AND VALVE TAGGING:
ALL PIPES ARE TO BE LABELED AND COLOR CODED WITH CONTENTS CLEARLY IDENTIFIED AND DIRECTION OF FLOW INDICATED.

EACH PIECE OF MECHANICAL EQUIPMENT SHALL BE TAGGED WITH AN I.D. CORRESPONDING TO THE DESIGN DOCUMENTS. THE TAG SHALL BE PLASTIC LAMINATE WITH 1/8" HIGH ENGRAVED LETTERS.

ALL VALVES SHALL BE NUMBERED AND TAGGED WITH A BRASS I.D. PLATE WITH A NUMBER CORRESPONDING TO THOSE ON A CHART AND DIAGRAM INCLUDED IN THE O & M MANUALS.

MISCELLANEOUS:
HIGH EFFICIENCY ELECTRIC MOTORS SHALL BE USED.

SECTION 23 0583 TESTING

- GENERAL:**
THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL SCAFFOLDING, TOOLS, AND EQUIPMENT TO COMPLETE ALL TESTING. IN ADDITION, HE SHALL REPAIR OR REPLACE ALL DEFECTIVE COMPONENTS AS INDICATED BY THE TEST.

- EXECUTION:**

TESTS AND ADJUSTMENTS:
BEFORE ANY PIPING IS COVERED, TESTS SHALL BE MADE IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE.

THE FOLLOWING MINIMUM PRESSURES SHALL BE USED FOR TESTING:

- DOMESTIC HOT AND COLD WATER PIPING AT 150 PSIG FOR SIX HOURS.
- PLUMBING WASTE AND VENT PIPING AT 10 FT. HEAD FOR SIX HOURS.

BURIED SANITARY & STORM SEWER LINES:
BELOW GRADE SEWER LINES SHALL BE TESTED FOR LEAKAGE BY EITHER INFILTRATION OR EXFILTRATION TESTS. ALL VISIBLE LEAKS SHALL BE CORRECTED REGARDLESS OF LEAKAGE TEST RESULTS.

EQUIPMENT:
THE CONTRACTOR SHALL FURNISH ALL NECESSARY FANS, GAUGES, PUMPS, ETC. REQUIRED TO CONDUCT THE TESTS.

REPORTS:
ALL TESTS SHALL BE RECORDED AND COPIES OF THE REPORT PLACED IN THE O & M MANUALS.

SECTION 23 0593 BALANCING

- GENERAL:**
AN INDEPENDENT TECHNICAL BALANCING FIRM SHALL PERFORM THE CHECKING, ADJUSTING, AND BALANCING (CAB) OF THE HVAC SYSTEMS AND DOMESTIC HOT WATER CIRCULATING SYSTEM, AND SHALL PROVIDE THE OWNER WITH A NATIONAL WARRANTY CERTIFICATE. ALL SYSTEMS SHALL BE ADJUSTED TO WITHIN 10% OF THE DESIGN DOCUMENTS REQUIREMENTS.

DOCUMENTS:
THE CAB FIRM SHALL REVIEW AND COMMENT ON THE "RECORDS FOR OWNER" INCLUDING RECORD DRAWINGS, SHOP DRAWINGS, ETC.

EQUIPMENT AND INSTRUMENTS:
THIS CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, SCAFFOLDING, INSTRUMENTS, ETC. REQUIRED TO ADJUST, BALANCE AND CHECK ALL SYSTEMS.

REPORT:
A PDF FORMAT ELECTRONIC COPY OF THE REPORT SHALL BE FURNISHED TO THE ENGINEER FOR REVIEW, AND A FINAL REVISED COPY SHALL BE FURNISHED TO THE OWNER AFTER APPROVAL FROM THE ENGINEER.

SECTION 23 0700 INSULATION

- GENERAL:**
ALL HOT (100 DEG. F. AND ABOVE) AND ALL COLD (55 DEG. F. AND BELOW) SURFACES OF ALL PIPING AND MECHANICAL SYSTEM COMPONENTS SHALL BE INSULATED.

ALL INSULATION SHALL CONFORM TO THE REQUIREMENTS OF THE BUILDING CODE AND HAVE A FLAME SPREAD RATING OF LESS THAN 25 AND SMOKE DEVELOPED LESS THAN 50.

- PRODUCTS:**
ALL DOMESTIC HOT WATER, COLD WATER, HOT WATER RE-CIRCULATING, AND RAINWATER ROOF DRAIN PIPING TO BE INSULATED WITH 1" FIBERGLASS INSULATION WITH WHITE ALL SERVICE JACKET. COLD WATER AND ROOF DRAIN RAINWATER PIPING INSULATION TO HAVE A VAPOR BARRIER.

ALL VALVES AND FITTINGS SHALL BE INSULATED AS SPECIFIED FOR THE PIPING AND SHALL BE COVERED WITH HIGH TEMPERATURE P.V.C. JACKETS.

LOW PRESSURE ROOF DUCT EXPOSED TO OUTSIDE AIR SHALL BE WRAPPED WITH R-12 DUCT WRAP INSULATION WITH VAPOR BARRIER.

SECTION 23 3000 AIR DISTRIBUTION

- GENERAL:**
WORK SHALL INCLUDE A NEW EXHAUST, VENTILATION, AND DUCT SYSTEMS, AND ALL MATERIALS, EQUIPMENT, AND LABOR REQUIRED TO COMPLETE THE SYSTEMS SHOWN ON PLANS AND SPECIFIED HEREIN.

- PRODUCTS:**
DUCTWORK:
ALL CONSTRUCTION DETAILS SHALL COMPLY WITH THE LATEST EDITION OF THE SMACNA SHEET METAL STANDARDS.

FLEXIBLE CONNECTION: PROVIDE FLEXIBLE CONNECTIONS AT THE INLET AND OUTLET CONNECTION OF EACH FAN UNIT.

TEST HOLES AND DUCT PORTS: FURNISH TEST HOLES AND DUCT PORTS FOR TESTING OF AIR QUANTITIES IN DUCTS.

DUCT LINER:
LOW PRESSURE RECTANGULAR DUCTS: THE INTERIOR SURFACE OF ALL LOW PRESSURE SUPPLY AND RETURN AIR DUCTS SHALL BE LINED WITH 1" THICK FIBERGLASS DUAL DENSITY DUCT LINER.

LOW PRESSURE ROUND DUCTS: ALL ROUND METAL DUCTS SHALL BE WRAPPED WITH 1" THICK FIBERGLASS DUCT WRAP WITH FACTORY-APPLIED VAPOR BARRIER (SEE 15180).

LOW PRESSURE FLEXIBLE DUCTS: INSULATED LOW VELOCITY FLEXIBLE DUCTS SHALL BE GENFLEX TYPE SL-1.

REGISTERS, GRILLES AND DIFFUSERS:
SUPPLY AIR REGISTERS: ALL UNITS TO HAVE AIR DEFLECTION, WITH REMOVABLE CORES. UNITS SHALL BE PRICE, AIR GUIDE, CARNES, TITUS, WATERLOO, KRUEGER, OR AGITAIR.

RETURN EXHAUST & TRANSFER AIR GRILLES: ALL UNITS TO BE STEEL OR ALUMINUM CONSTRUCTION. ALL CORES SHALL BE REMOVABLE. REGISTERS SHALL BE PRICE, AIR GUIDE, CARNES, TITUS, WATERLOO, KRUEGER, AND AGITAIR.

CEILING DIFFUSERS: ALL CEILING DIFFUSERS SHALL BE OF THE AIR PATTERN INDICATED ON THE DRAWINGS. UNITS SHALL BE STEEL CONSTRUCTION WITH INNER ASSEMBLY EASILY REMOVABLE FROM OUTER FRAME WITHOUT SPECIAL TOOLS. DIFFUSERS SHALL BE PRICE, AIR GUIDE, CARNES, TITUS, AGITAIR, KRUEGER, OR WATERLOO.

CEILING MOUNTED EXHAUST FANS:
FURNISH AND INSTALL COMPLETE THE CEILING MOUNTED EXHAUST FANS SHOWN AND SPECIFIED ON THE DRAWINGS. FAN SHALL HAVE ACOUSTICALLY INSULATED HOUSING FOR QUIET OPERATION. AIR DELIVERIES SHALL BE AS INDICATED ON THE DRAWINGS AND SHALL BE CERTIFIED BY AMCA PERFORMANCE TESTS. FAN SHALL HAVE CENTRIFUGAL WHEEL DIRECT CONNECTED TO MOTOR. CEILING GRILLE SHALL BE ALL ALUMINUM CONSTRUCTION WITH SATIN FINISH. ENTIRE FAN MOTOR AND WHEEL ASSEMBLY SHALL BE REMOVABLE WITHOUT DISTURBING THE HOUSING. FAN SPEEDS SHALL NOT EXCEED 1100 RPM. UNIT SHALL BE COMPLETE WITH BACKDRAFT DAMPER.

FANS SHALL BE GREENHECK, TWIN CITY, COOK OR PENN.

CEILING MOUNTED CABINET EXHAUST FAN
PROVIDE AND INSTALL THE EXHAUST FAN AS SHOWN IN THE SCHEDULE AND ON THE DRAWINGS. UNIT SHALL BE TWIN CITY FAN, COOK, OR GREENHECK.

DAMPERS - GENERAL:
DAMPER FRAMES SHALL BE OF NOT LESS THAN 13 GAUGE GALVANIZED STEEL, FORMED FOR EXTRA STRENGTH, WITH MOUNTING HOLES FOR ENCLOSED DUCT MOUNTING.

AUTOMATIC DAMPERS:
THE ATC CONTRACTOR SHALL FURNISH ALL AUTOMATIC CONTROL DAMPERS. THE SHEET METAL CONTRACTOR SHALL INSTALL THEM AND TRANSITION ALL DUCTWORK TO THE DAMPERS. FRAMES SHALL BE 13 GAUGE AND BLADES DOUBLE 22 GAUGE GALVANIZED SHEET STEEL. DAMPERS SHALL BE LOW LEAKAGE TYPE.

ALL MODULATING DAMPERS TO BE OF OPPOSED BLADE TYPE.

- EXECUTION:**
SHEET METAL INSTALLATION:
ALL NECESSARY ALLOWANCE AND PROVISIONS SHALL BE MADE IN THE INSTALLATION OF SHEET METAL DUCTS FOR THE STRUCTURAL CONDITIONS OF THE BUILDING, AND DUCTS SHALL BE TRANSFORMED OR DIVIDED, AS MAY BE REQUIRED.

TESTING:
THE SHEETMETAL CONTRACTOR SHALL PROVIDE ALL MATERIALS, LABOR, AND EQUIPMENT NECESSARY TO TEST THE DUCTWORK. TEST DUCTWORK TO SMACNA STANDARDS.

CLEANING OF DUCTS:
BEFORE THE CEILING IS INSTALLED AND FINAL CONNECTIONS ARE MADE TO THE OUTLETS, IT WILL BE REQUIRED THAT ALL FANS BE OPERATED AT FULL CAPACITY TO BLOW OUT DIRT AND DEBRIS FROM DUCTS.

PAINTING BEHIND GRILLES:
ALL VISIBLE SURFACES BEHIND GRILLES AND REGISTERS MUST BE PAINTED FLAT BLACK.

SECTION 23 4000 PLUMBING

- GENERAL:**
SCOPE OF WORK:
THE WORK SHALL INCLUDE FURNISHING OF ALL MATERIALS AND LABOR REQUIRED FOR THE WORK AS FOLLOWS:

- COMPLETE DOMESTIC WATER SYSTEM
- ALL PLUMBING FIXTURES
- WASTE SYSTEMS

STANDARDS:
PLUMBING INSTALLATION SHALL BE MADE IN ACCORDANCE WITH THE UTAH STATE PLUMBING CODES AND ALL LOCAL CODES AND ORDINANCES.

TRAPS:
EACH FIXTURE INSTALLED IN THE WORK SHALL BE INSTALLED SUCH THAT ALL GASES SHALL PASS FREELY TO THE ATMOSPHERE, WITH NO PRESSURE OR SIPHON CONDITION ON THE WATER SEAL.

VENTS:
THE ENTIRE SYSTEM SHALL BE PROPERLY VENTED TO ATMOSPHERE.

CLEANOUTS:
CLEANOUTS SHALL BE INSTALLED IN THE BASE OF EACH VERTICAL SOIL, WASTE, OR RAINWATER DRAINAGE LINE, AND IN THE HORIZONTAL LINE AT EACH CHANGE IN DIRECTION. IN ADDITION, THERE SHALL BE CLEANOUTS SPACED AT MAXIMUM SPACING OF 50 FEET IN ALL HORIZONTAL LINES. ALL CLEANOUTS SHALL BE EXTENDED TO ACCESSIBLE SURFACES.

FLASHINGS:
ALL PIPES PASSING THRU THE ROOF SHALL BE FLASHED WATERTIGHT.

PIPE GRADING AND SLOPE:
WASTE, VENT, RAINWATER DRAINAGE LINES 4" AND UNDER SHALL BE GRADED AT LEAST 1" IN 4'-0". THOSE ABOVE 4" SHALL BE GRADED AT LEAST 1" IN 8'-0". WATER LINES SHALL BE GRADED TO DRAIN IN CHASES AND MECHANICAL ROOMS.

- PRODUCTS:**
PLUMBING FIXTURES:
THIS CONTRACTOR SHALL FURNISH AND INSTALL ALL FIXTURES.
 - STAINLESS STEEL SINKS SHALL BE ELKAY, JUST, OR MOEN.
 - FAUCETS SHALL BE MOEN, SYMMONS, DELTA, OR CHICAGO

S-L-SINK: JUST DL-1933-A-GR. 19"x35"x17-1/2". 18 GA 2-COMPARTMENT STAINLESS STEEL, DRILLED FOR 3-HOLE 8" CENTERSET FAUCET, SELF-RIMMING, SOUND DAMPENING, AND CUP STRAINERS. CHICAGO 201-AQNBAC33XKABCP GOOSENECK RIGID/SWING FAUCET, 2-3/8" LEVER HANDLES, VANDAL RESISTANT FULL FLOW AERATOR, AND CERAMIC CARTRIDGES. PROVIDE IN-SINK-ERATOR STAINLESS STEEL EVOLUTION COMPACT GARBAGE DISPOSAL, 3/4 HP @ 120/180. BUILT-IN OVERLOAD WITH MANUAL RESET AND AUTOMATIC REVERSING SWITCH. PROVIDE FLEXIBLE SUPPLIES, AND CHROME PLATED BRASS TAILPIECE & P-TRAPS.

IMB-1 ICE MAKER BOX: GUY GRAY BM-875 FOR IN-THE-WALL INSTALLATION WITH CONCEALED PIPING, 12" BALL VALVE, 18 GAUGE DIPPED GALV. STEEL FINISH. FACE PLATE WITH 20 GAUGE BOX. (VERIFY MOUNTING HEIGHT WITH CONDITIONS).

PROJECT TITLE

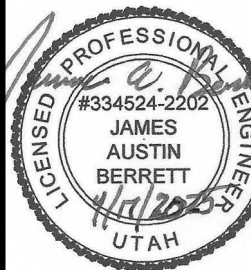
CANYON SCHOOL DISTRICT

ALTARA ELEMENTARY REMODEL

1800 E 11000 S BASECAMP 1

SANDY, UT

REVISIONS:



170 NORTH MAIN STREET
SPRINGFIELD, UT 84660
WWW.KMAARCHITECTS.COM

MO.1

DRAWN BY: JAP
CHECKED BY: JAB
DATE: APRIL 17, 2025
PROJECT #: XXX

4/17/2025 4:46:30 PM 1/4" = 1'-0"

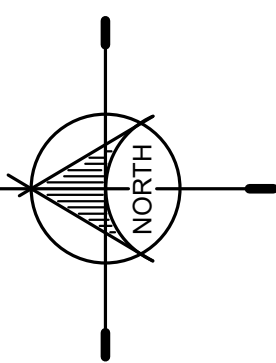
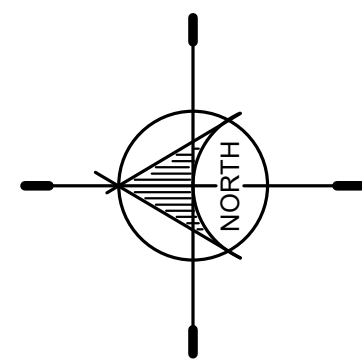





Diagram illustrating the typical duct penetration at roof detail. The diagram shows a vertical duct assembly passing through a roof structure. Key components and dimensions are labeled:

- NON-BACKDRAFT TYPE VENT CAP:** The topmost component of the duct assembly.
- RAIN COLLAR COORDINATE REQ'S. WITH ROOF MFGR.:** A collar located below the vent cap.
- ROOF FLASHING TO NOT ANCHOR FLASHING TO DUCT. DUCT MUST MOVE FOR ROOF EXPANSION:** A note indicating the flashing should be independent of the duct to allow for movement.
- 60" MIN. GAS:** Dimension indicating the minimum height from the roof line to the top of the vent cap.
- 30" MIN. EXHAUST:** Dimension indicating the minimum height from the roof line to the top of the rain collar.
- 16" MIN.:** Dimension indicating the minimum height from the roof line to the bottom of the rain collar.
- ROOF LINE:** The horizontal line representing the roof surface.





The diagram shows the duct assembly passing through a cross-section of a roof, with the roof line indicated by a dashed line. The roof structure is shown with hatching, and the duct assembly is shown with a solid line.

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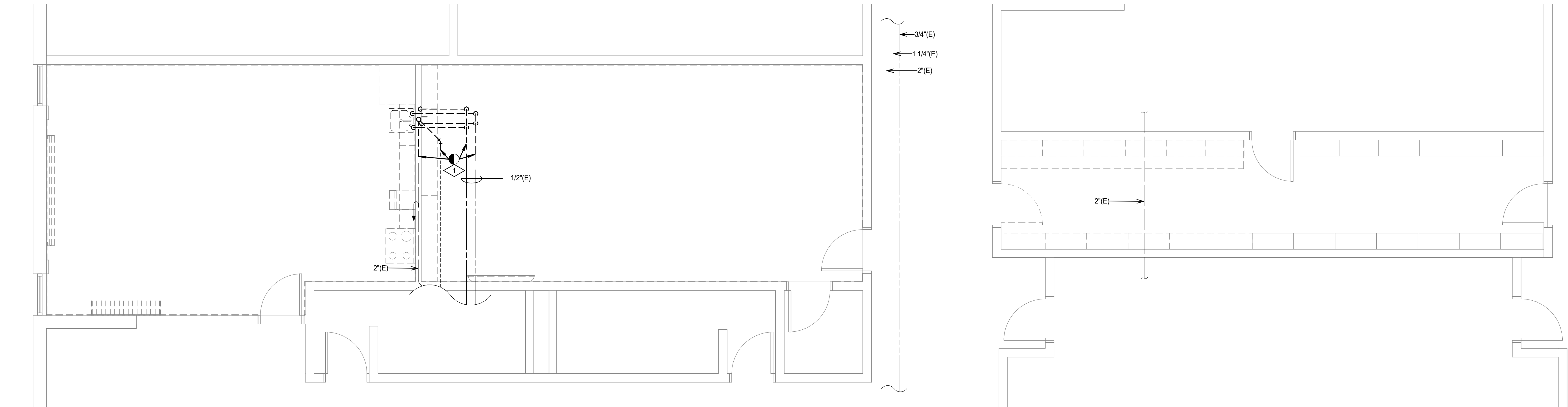
4/7/2025 4:48:31 PM 1/4" = 1'-0"

PLUMBING FIXTURE SCHEDULE						
SYMBOL	FIXTURE	WASTE	VENT	C.W.	H.W.	NOTES (1)
	SINK	1-1/2"	1-1/2"	1/2"	1/2"	DUAL BASIN COUNTER MOUNTED WITH 3/4" HP DISPOSAL

NOTES:
(1) CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL PLUMBING FIXTURES WITH ARCHITECTURAL DRAWINGS PRIOR TO ROUGH-IN OR INSTALLATION.

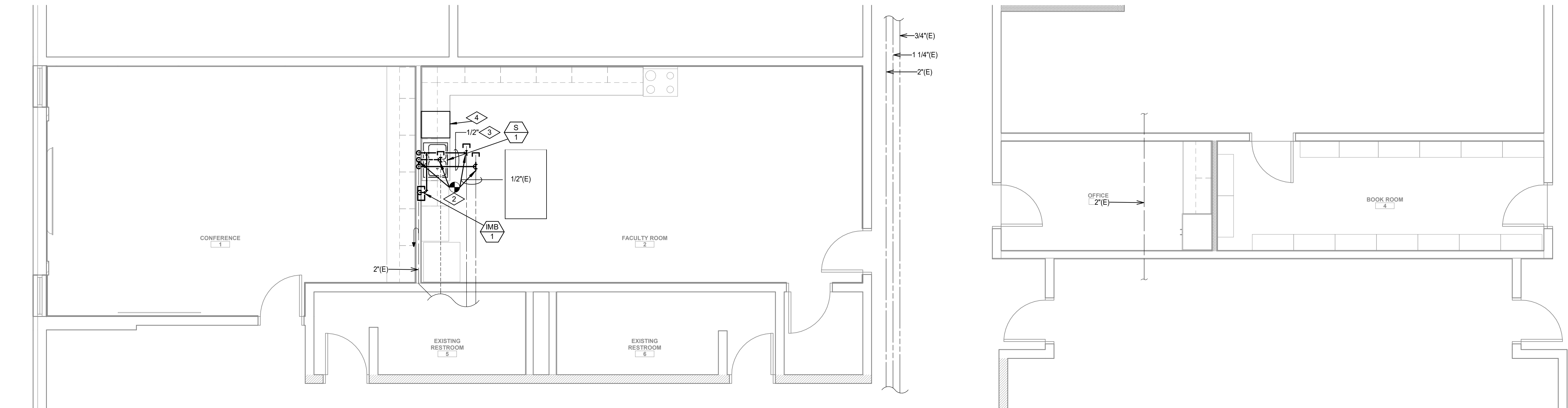
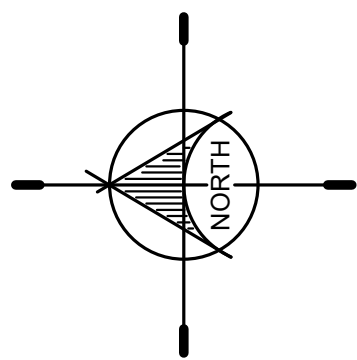
PLUMBING PIPING LEGEND	
DESCRIPTION	SYMBOL
WASTE (BELOW GRADE)	
VENT	
COLD WATER	
HOT WATER	

REFERENCE NOTES	
1	DEMO EXISTING PIPING BACK TO APPROXIMATLY THIS POINT.
2	CONNECT TO EXISTING AT THIS POINT.
3	PIPING TO RUN ABOVE CEILING.
4	PROVIDE SUPPLY TO DISHWASHER FROM SINK HOT WATER SUPPLY AND CONNECT TO DISHWASHER. CONNECT DRAIN FROM DISHWASHER TO SINK DISPOSAL CONNECTION.



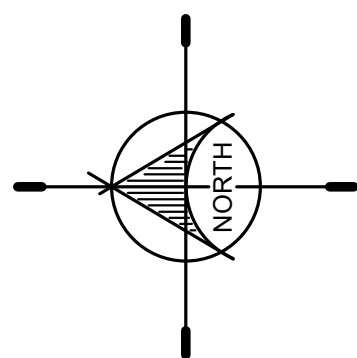
ENLARGED PLUMBING DEMO PLAN

0 4'-0" 8'-0" 16'-0"
SCALE: 1/4" = 1'-0"

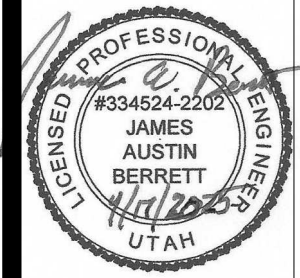


ENLARGED PLUMBING PLAN

0 4'-0" 8'-0" 16'-0"
SCALE: 1/4" = 1'-0"



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REVISIONS:

CANYON SCHOOL DISTRICT
SANDY, UT

PROJECT TITLE
ALTARA ELEMENTARY REMODEL
1800 E 11000 S BASECAMP 1

DRAWN BY: J.P.
CHECKED BY: JAB
DATE: APRIL 17, 2025
PROJECT #: XXX

P1.1

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GENERAL NOTES

- CONSULT ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATION OF ALL LIGHTING FIXTURES.
- VERIFY ALL EQUIPMENT DIMENSIONS AND LOCATIONS BEFORE BEGINNING ROUGH IN. CONSULT ALL APPLICABLE CONTRACT DRAWINGS AND SHOP DRAWINGS TO INSURE NEC CODE CLEARANCES REQUIRED AROUND ALL ELECTRICAL EQUIPMENT.
- CONTRACTOR SHALL VERIFY ALL ELECTRICAL LOADS (VOLTAGE, PHASE, CONNECTION REQUIREMENTS, ETC.) OF ALL EQUIPMENT FURNISHED UNDER ALL DIVISIONS, INCLUDING ALL EXISTING EQUIPMENT TO BE RE-USED. REVIEW ALL SHOP DRAWINGS AND EXISTING EQUIPMENT BEFORE BEGINNING ROUGH-IN.
- SEE SECTION 26.5105 OF THE SPECIFICATION FOR REQUIRED COORDINATION MEETINGS WITH MECHANICAL AND CEILING CONTRACTORS.
- SEE APPLICABLE SHOP DRAWINGS FOR ROUGH-IN LOCATION OF ALL EQUIPMENT, WIRING DEVICES, ETC. WHERE APPLICABLE MOUNT ALL WIRING DEVICES ABOVE BACK SPLASH EXCEPT THOSE SERVING UNDER COUNTER EQUIPMENT.
- FINISHES OF ALL LIGHT FIXTURES SHALL BE AS SELECTED BY ARCHITECT.
- THE ELECTRICAL CONTRACTOR SHALL NOTIFY AND COOPERATE WITH THE MECHANICAL CONTRACTOR SUCH THAT NO PIPING, DUCTS, OR EQUIPMENT FOREIGN TO THE OPERATION OF THE ELECTRICAL EQUIPMENT SHALL BE PERMITTED TO BE INSTALLED IN, ENTER OR PASS THRU ELECTRICAL ROOMS OR SPACES, OR ABOVE OR BELOW ELECTRICAL EQUIPMENT IN OTHER AREAS.
- ELECTRICAL BOXES SHALL NOT BE LOCATED IN MASONRY COLUMNS IN BRICK WALLS OR IN GROUDED CELLS ADJACENT TO OPENINGS. COORDINATE LOCATION OF BOXES WITH MASONRY CONTRACTOR.
- ALL PENETRATIONS OF FIRE RATED FLOORS, WALLS, AND CEILINGS SHALL BE SEALED WITH APPROVED MATERIAL TO MAINTAIN FIRE RATING OF SURFACE PENETRATED.
- CIRCUITS EXTENDING OVER 70' FOR 120 VOLT AND 115' FOR 277 VOLT 20 AMP CIRCUITS SHALL BE RUN WITH CONDUCTORS PER TABLE BELOW.

20 AMP MINIMUM BRANCH CIRCUIT CONDUCTOR SIZING			
MAXIMUM LENGTH		BRANCH CIRCUIT VOLTAGE	
CONDUCTOR LENGTH (FT)	120 VOLT	277 VOLT	
<70	MIN. #12 AWG	MIN. #12 AWG	
70 - 115	MIN. #10 AWG	MIN. #12 AWG	
115 - 170	MIN. #8 AWG	MIN. #10 AWG	
170 - 270	MIN. #6 AWG	MIN. #8 AWG	
271 - 380	NOTE B	MIN. #6 AWG	
>380	NOTE B	NOTE B	

- THESE ARE BASED ON MAXIMUM LENGTH OF CIRCUIT.
 - PERFORM VOLTAGE DROP CALCULATIONS AND PROVIDE CONDUCTOR SIZE TO KEEP BRANCH CIRCUIT VOLTAGE DROP LESS THAN 3% WITH A 15 AMP LOAD.
 - CONTRACTOR SHALL ENSURE THAT THE INSTALLATION OF EACH BRANCH CIRCUIT STAYS WITHIN 3% VOLTAGE DROP FOR A 15 AMP LOAD. IF NECESSARY CONTRACTOR SHALL INCREASE WIRE AND CONDUIT SIZE TO MEET THE STANDARD AT NO ADDITIONAL COST TO OWNER.
- ALL CONDUIT SHALL BE INSTALLED IN STRAIGHT LINES PARALLEL TO, OR AT RIGHT ANGLES TO, THE STRUCTURE OR ADJACENT BUILDING ELEMENTS. SEPARATIONS BETWEEN CONDUITS AND FASTENINGS OF CONDUITS SHALL BE NEAT AND CONSISTENT. CONDUIT SHALL BE INSTALLED AS TIGHT TO THE BOTTOM OF STRUCTURAL ELEMENTS WHEN PARALLEL TO JOISTS AS CODE WILL ALLOW. OVERALL INSTALLATION SHALL BE ACCOMPLISHED IN AN AESTHETIC AND WORKMANLIKE MANNER. NO CONDUITS SHALL BE ALLOWED TO RUN PERPENDICULAR TO THE BOTTOM CHORD OF THE JOISTS.
 - DIVISION 26 SHALL VISIT SITE PRIOR TO BIDDING. BIDS SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS. FIELD VERIFY ALL ELECTRICAL EQUIPMENT.
 - BIDDERS SHALL EXAMINE THE SITE AND THE COMPLETE SET OF PLANS AND SPECIFICATIONS COVERING THE ENTIRE PROJECT. THEY SHALL BECOME FULLY CONVERSANT WITH THE TYPE OF GENERAL CONSTRUCTION AS WELL AS ALL PERTINENT FACTS AFFECTING THE COST OF CARRYING OUT THE WORK THEY WILL CONTRACT TO PERFORM.
 - ELECTRICAL CONTRACTOR SHALL COORDINATE PROJECT PHASING WITH GENERAL CONTRACTOR AND BID AND PERFORM RESPONSIBILITIES FOR THIS PROJECT TO GENERAL CONTRACTOR EXPECTATIONS.
 - COORDINATE ELECTRICAL DEMOLITION WITH ARCHITECTURAL DRAWINGS AND GENERAL CONTRACTOR.
 - CLOSELY COORDINATE ANY REQUIRED POWER SHUTDOWNS WITH HEAD CUSTODIAN AND OWNER.
 - WHERE JOB CONDITIONS REQUIRE CHANGES FROM THE CONTRACT DOCUMENTS THAT DO NOT CHANGE THE SCOPE OF INSTALLATION OR NATURE OF WORK REQUIRED, THE CONTRACTOR WILL MAKE SUCH CHANGES WITHOUT ADDITIONAL COST TO THE OWNER. NO OTHER CHANGES MAY BE MADE WITHOUT WRITTEN PERMISSION OF THE OWNER.
 - SEQUENCE COORDINATE AND INTEGRATE INSTALLATIONS OF ELECTRICAL MATERIALS AND EQUIPMENT FOR EFFICIENT FLOW OF THE WORK. GIVE PARTICULAR ATTENTION TO LARGE EQUIPMENT REQUIRING POSITIONING PRIOR TO CLOSING IN THE BUILDING. COORDINATE THE CUTTING AND PATCHING OF BUILDING COMPONENTS TO ACCOMMODATE INSTALLATION OF ELECTRICAL EQUIPMENT AND MATERIALS.
 - DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
 - DISCONNECT AND RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK.
 - CONTRACTOR MUST CONCEAL ALL RACEWAY THROUGHOUT THE PROJECT. SURFACE MOUNT RACEWAY IS UNACCEPTABLE EXCEPT WHERE THE USE OF PAINTED SURFACE METAL RACEWAYS (EMT) IS APPROVED SOLELY BY THE ARCHITECT PAINT TO MATCH SURROUNDING SURFACE.
 - ALL CONCRETE CUT AND PATCH WORK REQUIRED FOR FLOOR BOXES INSTALLATION AND/OR RELOCATION OF ELECTRICAL DEVICES AND PANELS THAT REQUIRE WORK WITHIN THE FLOORS SHALL BE DONE BY ELECTRICAL CONTRACTOR. ALL CORE CUTTING FOR NEW SERVICE SHALL ALSO BE COVERED UNDER ELECTRICAL CONTRACTORS REQUIRED WORK.
 - IT IS THE INTENT THAT THE FOREGOING WORK SHALL BE COMPLETE IN EVERY RESPECT AND THAT ANY MATERIAL OR WORK NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT NECESSARY TO FULLY COMPLETE THE WORK SHALL BE FURNISHED BY ELECTRICAL CONTRACTOR.
 - PROVIDE GFCI CIRCUIT BREAKERS SERVING RECEPTACLES PROVIDING POWER TO DRINKING FOUNTAINS, REFRIGERATORS VENDING MACHINES, DISPOSALS, AND WASHING MACHINES.
 - CAREFULLY REVIEW THE ENTIRE DRAWING PACKAGE PRIOR TO PROVIDING BID, INCLUDING THE ARCHITECTURAL AND MECHANICAL DRAWINGS. NOT REVIEWING THE ENTIRE SET IS NOT ACCEPTABLE.
 - PROVIDE CONDUIT FROM DEVICE TO DEVICE IN OPEN AND/OR EXPOSED CEILINGS. CEILINGS WITH CLOUDS ARE CONSIDERED OPEN/EXPOSED CEILING. NO EXPOSED CABLES SHALL BE SEEN FROM BELOW.
 - PROVIDE WEATHERPROOF, NEMA 3R RATED EQUIPMENT FOR ALL EXTERIOR APPLICATIONS.

DEMOLITION NOTES

- COORDINATE ALL NEW ELECTRICAL EQUIPMENT REQUIREMENTS AND MAKE CONNECTION TO EXISTING SYSTEMS. THIS INCLUDES LIGHTING, POWER, SIGNAL, RACEWAY AND OTHER SYSTEMS INCLUDED UNDER DIVISION 26.15.
- RELOCATE, REWIRE AND/OR RECONNECT EXISTING ELECTRICAL DEVICES AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
- CONCEAL ALL RACEWAY AND WIRING IN EXISTING WALLS, CEILINGS, FLOORS, ETC. EXCEPT WHERE THE USE OF SURFACE METAL RACEWAYS (E.G. WIRE MOLD) IS INDICATED ON DRAWINGS OR IN SPEC.
- LEAVE ALL EXISTING EQUIPMENT, IN PORTIONS OF THE BUILDING NOT BEING REMODELED, IN WORKING CONDITION. RESTORE ALL INTERRUPTED BRANCH CIRCUITS, FEEDERS, ETC. TO WORKING CONDITION.
- EXISTING RACEWAYS MAY BE REUSED (IN PLACE) WHERE POSSIBLE, AND WHERE IN COMPLIANCE WITH THE SPECIFICATIONS AND THE INTENT OF THE CONTRACT DOCUMENTS. INSURE INTEGRITY OF EXISTING RACEWAY BEFORE REUSE.
- REMOVE ALL RACEWAYS, CONDUCTORS, BOXES, DEVICES, EQUIPMENT, ETC. THAT ARE NOT TO BE REUSED.
- REMOVE EXISTING LIGHT FIXTURES WHICH ARE NOT TO BE REUSED. PLACE IN CARTON, LABEL APPROPRIATELY, AND RETURN TO OWNER, OR PROPERLY DISPOSE OF FIXTURES THAT THE OWNER CHOOSES NOT TO KEEP.
- DO NOT PENETRATE STRUCTURAL ELEMENTS OF FLOORS, WALLS, CEILINGS, ROOFS, ETC.
- DISCONNECT AND RECONNECT ANY/ALL FIXTURES, DEVICES, EQUIPMENT, ETC. REQUIRED FOR PROPER COMPLETION OF THE WORK.

ABBREVIATIONS INDEX

ABBREV.	DESCRIPTION	ABBREV.	DESCRIPTION
#	NUMBER	WH	WATHOLE
AC	ALTERNATING CURRENT	MC	MICROPHONE
A.F.F.	ABOVE FINISH FLOOR	MIN	MINIMUM
AIC	AMPS INTERRUPTING CAPACITY	MTG	MOUNTING
AM	AMPS METER	MTR	MOTOR
AMP	AMPERE	N/A	NOT APPLICABLE
ANN	ANNUNCIATOR	NC	NORMALLY CLOSED
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRICAL CODE
AUX	AUXILIARY	NEMA	NATIONAL ELECT. MANUFAC. ASSOC.
AWG	AMERICAN WIRE GAUGE	NFPA	NATIONAL FIRE PROTECTION ASSOC.
BC	BARE COPPER	N.I.C.	NOT IN CONTRACT
BFG	BELOW FINISH GRADE	NO	NORMALLY OPENED
C	CONDUIT	NTS	NOT TO SCALE
CAB	CABINET	OS & Y	OUTSIDE SCREW & YOKE
CATB	COMMUNITY ANTENNA TELEVISION	PB	PUSHBUTTON
CATV	CABLE TELEVISION	PF	POWER FACTOR
CKT	CIRCUIT	PRR	PHASE FAILURE RELAY
CNL	CONTRACTOR	PNL	PANEL
CONTR	CONTRACTOR	PT	POTENTIAL TRANSFORMER
C.O.	CONDUIT ONLY	PVC	POLYVINYL CHLORIDE CONDUIT
CRT	COMPUTER TERMINAL	(R)	RELOCATE
CT	CURRENT TRANSFORMER	RECEP	RECEPTACLE
CJ	COPPER	REQ	REQUIREMENT
CW	COMPLETE WITH	RLA	RATED LOAD AMPS
DB	DECIBEL	RMP	ROCKY MOUNTAIN POWER
DC	DIRECT CURRENT	RMS	ROOT MEAN SQUARE
DWG	DRAWING	SE	SERVICE ENTRANCE
(E)	EXISTING	SPEC	SPECIFICATIONS
EC	EMPTY CONDUIT	SPKR	SPEAKER
EG	EMERGENCY GENERATOR	SS	SELECTOR SWITCH
EMT	ELECTRICAL METALLIC TUBING	SW	SWITCH
EX	EXPLOSION PROOF	SWBD	SWITCHBOARD
FACP	FIRE ALARM CONTROL PANEL	SWGR	SWITCHGEAR
FC	FOOT CANDLE	TB	TELEPHONE TERMINAL BOARD
FT	FOOT	TT	TELEPHONE TERMINAL CABINET
GFI	GROUND FAULT INTERRUPTER	TV	TELEVISION
GND	GROUND	TYP	TYPICAL
GRC	GALVANIZED RIGID CONDUIT	UG	UNDERGROUND
HP	HORSE POWER	UPS	UNINTERRUPTED POWER SUPPLY
HZ	HERTZ	V	VOLT (KV-KILOVOLT)
IRC	INTERNATIONAL FIRE CODE	VAR	VOLT-AMPERE REACTIVE
IG	ISOLATED GROUND	VM	VOLT METER
IMC	INTERMEDIATE METALLIC CONDUIT	W	WATTS
IN	INCH	W/	WITH
J-BOX	JUNCTION BOX	WH	WATT-HOUR METER
KV	KILOVOLT	W/O	WITHOUT
KVA	KILOVOLT-AMPERES	WP	WEATHERPROOF
KVAR	KILOVAR	XFMR	TRANSFORMER
KW	KILOWATT	XFMR SW	TRANSFER SWITCH
LRA	LOCKED ROTOR AMPS	XP	EXPLOSION PROOF
LTC	LIGHTING	1P	SINGLE-PHASE
MNF	MANUFACTURER	2P	TWO-POLE
MAX	MAXIMUM	3P	THREE-POLE
MBS	MAIN BUS	4P	FOUR-POLE
MCC	MOTOR CONTROL CENTER	Ø	PHASE
MCM	1000 CIRCULAR MILLS	PROVIDE	SUPPLY, INSTALL, AND CONNECT

TELEPHONE/DATA LEGEND

DIVISION 26000, 27, AND 28 ELECTRICAL CONTRACTORS ARE RESPONSIBLE TO READ, UNDERSTAND AND ABIDE TO THE SPECIFICATIONS OF DIVISION 27.1500 CONTRACTORS RESPONSIBILITY AND THE SCOPE OF THE WORK THAT IS BEING REQUIRED. REFER TO DRAWINGS AND SPECIFICATIONS FOR ANY ADDITIONAL REQUIRED DROPS AND FURTHER INFORMATION.

	CEILING MOUNTED OUTLET: REFER TO LETTER FOR CABLE QUANTITY.
	WIRELESS ACCESS POINT: (2) CAT6A DATA CABLES WITH 2 PORT SURFACE BOX (15" COIL ABOVE CEILING).
	FLOOR BOX: REFER TO DESCRIPTION FOR # CABLES REQUIRED AT EACH FLOOR BOX.
	FLAT PANEL DISPLAY BOX: PROVIDE (1) DATA DROP UNLESS NOTED OTHERWISE.
	IP SURVEILLANCE CAMERA: REFER TO SYSTEMS SHEETS FOR DEVICE LOCATIONS. PROVIDE ONLY RACEWAY AND (1) SPECIFIED CAT5 CATEGORY CABLE TO EACH CAMERA. ALL OF THE ACTIVE EQUIPMENT WILL BE PROVIDED BY OTHERS.
	CREDENTIAL CARD READER: REFER TO SYSTEMS SHEETS FOR DEVICE LOCATIONS. PROVIDE RACEWAY ONLY. CABLING AND ALL OF THE ACTIVE EQUIPMENT IS PROVIDED BY OTHERS.
	ACCESS CONTROL SYSTEM TWO-WAY AUDIO VIDEO INTERCOM DOOR STATION: REFER TO SYSTEMS SHEETS FOR DEVICE LOCATIONS. PROVIDE RACEWAY ONLY. CABLING AND ALL OF THE ACTIVE EQUIPMENT IS PROVIDED BY OTHERS.
	PROJECTOR CEILING MOUNT AND RECESSED EQUIPMENT RACK LOCATION: REFER TO ET SERIES SHEETS FOR LOCATION OF PROJECTOR AND/OR EQUIPMENT RACK. PROVIDE SURGE PROTECTED OUTLET AND DATA AS INDICATED. (# CABLES PER "X" e.g. (1)-(1) = 1 DATA)
	AV IP INTERCOM SPEAKER: 1 DATA (REFER TO INTERCOM T4400 SHEETS)
	IP CLASSROOM SOUND AMPLIFICATION SYSTEM: 1 DATA (REFER TO AV T4300 SHEETS)

- ALL CABLE PATHWAYS (CONDUIT, CABLE BASKET/TRAY ETC.) TO BE INSTALLED BY DIVISION 26000 CONTRACTORS WHEN INDICATED ON THE DRAWINGS AND/OR IN THIS SPECIFICATION. CABLE TRAY IS NOT TO BE ANY LESS THAN 18" WIDE AND 4" HIGH THROUGH MAIN CORRIDOR PATHWAYS. CONTRACTORS TO INSTALL A 4-11/16" SQUARE DEEP BOX WITH A SINGLE 1" CONDUIT ENTRY TO EACH NETWORK DROP.
- PROVIDE A 10' SERVICE LOOP TO EACH DATA DROP, IP SURVEILLANCE, AND WAP LOCATION.
- ANY PATHWAYS IN OR UNDER THE SLAB OR ANY OTHER POTENTIALLY WET LOCATIONS SHALL USE THE APPROPRIATE OSP CABLES AND CONDUIT SHALL RUN TO THE NEAREST NETWORK CLOSET WHERE CABLES WILL BE TERMINATED WITHIN 50' OF EXITING THE CONDUIT. ANY PIPING OF THESE LOCATIONS TO THE CABLE TRAY SO THAT OSP CABLES WOULD RUN FREELY THROUGH A PLENUM AIR SPACE IS PROHIBITED.

SYMBOL LEGEND

NOTES:	
1. SEE FIXTURE SCHEDULE FOR TYPE, MOUNTING AND WATTAGE.	12. COORDINATE WITH DOOR HARDWARE SUPPLIER.
2. HEIGHT MEASURED TO CENTER LINE OF THE BOX FROM THE FINISHED FLOOR.	13. FOR WATER COOLER LOCATION, SEE DIAGRAM R002. FOR ALL OTHER LOCATIONS, MOUNT AT +18" TO BOTTOM OF BOX FROM FINISHED FLOOR, OR AS NOTED.
3. REFER TO DRAWINGS FOR DIRECTIONAL ARROWS.	14. ARROWS SHOWN ON DEVICE INDICATE AIMING DIRECTION.
4. SUBSCRIPT INDICATES FIXTURES TO BE CONTROLLED.	15. CAMERA NUMBERS ARE SHOWN INSIDE THE CAMERA SYMBOL. CAMERA TYPES ARE INDICATED IN TAG.
5. NEMA TYPE 'NO' NON-FUSED UNLESS NOTED 'F' (FUSED). USE 'HD' 480 V.	16. IN TOP OF TRUCK OF OVERHEAD DOOR, 6" FROM TOP OF DOOR, UNLESS OVERHEAD DOOR IS A ROLL UP DOOR, THEN MOUNT PER MANUFACTURER'S INSTRUCTIONS.
6. HEIGHT MEASURED TO TOP OF THE BOX FROM FINISHED FLOOR.	17. INSTALL DEVICES PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.
7. PROVIDE H O A, 2, AND S.S. PUSHBUTTONS AS REQUIRED.	18. DASHED LINE INDICATES EQUIPMENT CLEARANCES. ARROW INDICATES FRONT OF RACK.
8. DOUBLE ARROWS INDICATE A DOUBLE FACE UNIT.	19. SPEAKER TO BE MOUNTED IN HORIZONTAL POSITION.
9. DEVICES NOTED WITH AN 'A' INDICATE TO COORDINATE WITH MILLWORK SHOP DRAWINGS AND ELEVATIONS FOR HEIGHT.	20. MOUNTING HEIGHT IS TO BOTTOM OF DISPLAY.
10. SUBSCRIPT INDICATES NEMA CONFIGURATION.	
11. SOLID BOX AROUND DEVICE INDICATES INSTALLED IN FLOOR. DASHED BOX AROUND DEVICE INDICATES INSTALLED IN CEILING.	

*TYPICAL SYMBOL SCHEDULE. SOME SYMBOLS MAY NOT BE USED ON THIS SET OF DRAWINGS.

STANDARD MOUNTING HEIGHT UNLESS OTHERWISE NOTED ON PLANS

GENERAL			
SYMBOL	DESCRIPTION	MOUNTING HEIGHT	NOTES
	ONE CIRCUIT, HOME RUN TO PANEL		
	2 CIRCUIT, HOME RUN TO PANEL		
	3 CIRCUIT, HOME RUN TO PANEL		
	CONDUIT RUN CONCEALED IN WALL OR CEILING		
	CONDUIT RUN CONCEALED IN FLOOR OR GROUND		
	CONDUIT UP		
	CONDUIT DOWN		
	CONDUIT STUB LOCATION	CAP	
	CONDUIT / CIRCUIT CONTINUATION		

MULTIPLE SYSTEM SYMBOLS			
	RECEPTACLE SWITCH PACK	ABOVE CEILING	
	DUPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.
	SIMPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.
	DUPLEX RECEPTACLE	+18" OR AS NOTED	2. 9. 11.
	DUPLEX RECEPTACLE	9.	
	5mA GFCI CIRCUIT BREAKER PROTECTED RECEPTACLE	13.	
	WEATHERPROOF RECEPTACLE	+24" OR AS NOTED	2. 9.
	GROUND FAULT INTERRUPTER DUPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.
	DUPLEX RECEPTACLE EMERGENCY POWER (RED)	+18" OR AS NOTED	2. 9. 11.
	FOURPLEX RECEPTACLE	+18" OR AS NOTED	2. 9. 11.
	GROUND FAULT INTERRUPTER FOURPLEX RECEPT	+18" OR AS NOTED	2. 9.

LIGHTING			
	CEILING LIGHT FIXTURE	CEILING	1.
	WALL LIGHT FIXTURE	AS NOTED	1.
	RECESSED DOWNLIGHT FIXTURE	CEILING	1.
	RECESSED WALL-WASH DOWNLIGHT FIXTURE	CEILING	1.
	LIGHT FIXTURE	AS NOTED	1.
	EGRESS LIGHT FIXTURE	AS NOTED	1.
	AREA LIGHT POLE AND FIXTURE	CONCRETE BASE	1. 14. SEE DIAGRAM
	BOLLARD	CONCRETE BASE	1. 14. SEE DIAGRAM
	STALL LIGHT FIXTURE	AS NOTED	1.
	IN-GRADE LIGHT FIXTURE	CONCRETE BASE	1.
	FLOOD OR TRACK FIXTURE	AS NOTED	1.
	CEILING / WALL MOUNTED EXIT LIGHT	CEILING / AS NOTED	1. 3. 8.
	EMERGENCY LIGHT FIXTURE	AS NOTED	1.
	COMBO EXIT / EMERGENCY LIGHT FIXTURE	AS NOTED	1.
	TIME CLOCK	+60"	2.

POWER : RECEPTACLES MUST BE TAMPER RESISTANT			
	ISOLATED GROUND RECEPTACLE	+18" OR AS NOTED	2. 9.
	DUPLEX RECEPTACLE WITH USB OUTLET	+18" OR AS NOTED	2. 9.
	CONTROLLED DUPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.
	FOURPLEX RECEPTACLE EMERGENCY POWER (RED)	+18" OR AS NOTED	2. 9. 11.
	CONTROLLED FOURPLEX RECEPTACLE	+18" OR AS NOTED	2. 9.
	TVSS PROTECTED RECEPTACLE	+18" OR AS NOTED	2. 9.
	SPECIAL PURPOSE OUTLET	+18" OR AS NOTED	2. 10. W/ CAP.
	CORD DROP		SEE DIAGRAM
	CORD REEL		SEE DIAGRAM
	TOMBSTONE RECEPTACLE		
	POWER POLE		
	SINGLE / DUAL PORT ELECTRICAL VEHICLE CHARGER		

TELECOMMUNICATIONS			
	WALL PHONE	+60" OR AS NOTED	2.
	DATA OUTLET, ONE CABLE	+18" OR AS NOTED	2. 9. 11.
	DATA OUTLET, TWO CABLES	+18" OR AS NOTED	2. 9. 11.
	DATA OUTLET, THREE CABLES	+18" OR AS NOTED	2. 9. 11.
	DATA OUTLET, "X" INDICATES QUANTITY	+18" OR AS NOTED	2. 9. 11.
	DATA OUTLET, SOLID = FLOOR, DASHED = CEILING		11.
	TELEVISION OUTLET, SOLID = FLOOR, DASHED = CEILING	+18" OR AS NOTED	9. 11.

FIRE ALARM			
	BELL	+94"	2.
	CHIME / STROBE	+94" / CEILING	2.
	FIRE ALARM MANUAL STATION	+46"	2.
	FIRE ALARM SIGNAL HORN / STROBE	+94" / CEILING	2.
	CONCEALED FIRE ALARM HORN / STROBE	CEILING	
	CONCEALED FIRE ALARM HORN / STROBE WALL	+94"	2.
	FIRE ALARM SPEAKER / STROBE	+94" / CEILING	2.
	CONCEALED FIRE ALARM SPEAKER / STROBE	CEILING	
	CONCEALED FIRE ALARM SPEAKER / STROBE WALL	+94"	2.
	FIRE ALARM STROBE WITH BLUE COLORED LENS (CO VISUAL ALARM)	+94" / CEILING	2.
	FIRE ALARM ANNUNCIATOR PANEL	+58"	2. SEE DIAGRAM
	DOOR HOLDER	AS NOTED	

AUDIOVISUAL			
	2-WAY INTERCOMMUNICATION PUSHBUTTON STATION	(1) 3/4" SWITCH HEIGHT AS NOTED	2. 7. 10.

	SMOKE DETECTOR	CEILING	
	SMOKE / CARBON MONOXIDE DETECTOR	CEILING	
	CARBON MONOXIDE DETECTOR	CEILING	
	HEAT DETECTOR	CEILING	
	DUCT SMOKE DETECTOR	MTD. IN DUCT	
	FIRE / SMOKE DAMPER		
	FLOW SWITCH		
	TAMPER SWITCH		
	O.S. & Y. VALVE		SEE DIAGRAM
	FIRE ALARM RELAY OR SECURITY RELAY		
	FIRE ALARM CONTROL MODULE		
	FIRE ALARM MONITOR MODULE		

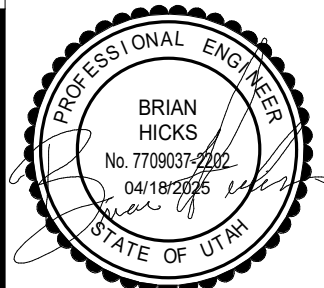
SHEET INDEX

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PROJECT TITLE

DRAWN BY: BNA
CHECKED BY: ENGINEER
DATE: FEB 2025
PROJECT #: 175125

E1.1

LIGHT FIXTURE SCHEDULE

(INCLUDE WITHIN BID)

<

EXTEND AND REWORK SPEAKERS AND CIRCUITS AS NEEDED. PROVIDE NEW CEILING SPEAKERS, CALL SWITCHES, SWITCHBANK, EQUIPMENT, ETC. AND CIRCUITS TO EXISTING RACK AS REQUIRED. MATCH SYSTEM WIRING. UPDATE PROGRAMMING.

LIGHTING CONTROL INTENT NARRATIVE (IECC 2021 COMPLIANT)

THE DRAWINGS SHOW GENERAL ZONING INTENT. THE BIDDING CONTRACTOR ALONG WITH THE LIGHTING CONTRACTOR SHALL PROVIDE A SYSTEM THAT COMBINES THE FEATURES NECESSARY AND MUST BE CAPABLE OF MEETING THIS INTENT. THE MANUFACTURER'S REPRESENTATIVE FOR DIVISION 26 AND BIDDING CONTROLS SHALL BE ACCOUNTABLE FOR THE COMPREHENSIVE LIGHTING CONTROLS PACKAGES FINALIZATION IN ALIGNMENT WITH THE DESIGN INTENT AND BENEFIT THE DRAWINGS AND COMPLYING WITH IECQ 2021 REQUIREMENTS. THE LIGHTING REPRESENTATIVE IS REQUIRED TO FURNISH EXHAUSTIVE SHOP DRAWINGS, ELUCIDATING THE LIGHTING CONTROL'S SYSTEMS TOPOLOGY AND THE ESSENTIAL CONNECTIONS/REQUIREMENTS FOR ITS PROPER FUNCTIONING.

GENERAL PRELIMIS:

- THE LIGHTING AND OUTDOOR LIGHTING WILL BE CONTROLLED BY A SYSTEM THAT PRIORITIZES ENERGY EFFICIENCY AND OCCUPANT COMFORT. MEETING IECQ 2021 REQUIREMENTS.
- THE LIGHTING WILL PRIMARILY FOLLOW A MASTER CLOCK SCHEDULE PROVIDED BY THE OWNER, WITH MANUAL OVERRIDE THROUGH TOUCH PANELS.
- 0-10V DIMMING WILL BE AVAILABLE ON ALL APPLICABLE LUMINAIRES FOR SMOOTH LIGHT LEVEL ADJUSTMENTS.
- DIMMING SENSORS WILL BE INSTALLED TO PRESET LEVELS (80% FOR CORRIDORS, STAIRWELLS, VESTIBULES) AFTER PERIODS OF INACTIVITY (15 MINUTES).
- TOUCH PANEL CONTROLLER STYLE BASED LIGHTING CONTROL (NON-NETWORKED). PROVIDE REQUIRED RELAYS AND END DEVICES AS NEEDED E.G. OCCUPANCY SENSORS, DAYLIGHT SENSORS, WALLSTATIONS, ETC.

SPECIFIC AREAS:

CONFERENCE, FACULTY ROOM:

- ROOM CONTROLLER BASED SYSTEM WITH OCCUPANCY THAT MANAGE CLASSROOM LIGHTING.
- ENTERING THE SPACE TRIGGERS THE SENSORS, TURNING LIGHTS ON TO 50% BRIGHTNESS.
- LEAVING THE SPACE CAN SET DESIRED LIGHT LEVELS FROM PRE-PROGRAMMED SCENES THROUGH THE WALL STATIONS.
- LIGHTS TURN OFF AUTOMATICALLY AFTER VACANCY OR A PRESET TIMEOUT PERIOD.
- DIMMING LUMINAIRES OPERATE ON THE SAME DIMMING SCENES.
- IN CASE OF A POWER FAILURE, DESIGNATED EMERGENCY LUMINAIRE(AUTOMATICALLY SWITCH TO 100% BRIGHTNESS.

RC1 WALLSTATION:

- ALL ON: TURNING ALL LIGHTING LOADS ON, BRINGING ALL DIMMING ZONES TO 100%.
- RAISE & LOWER (PRESS & HOLD): INCREASES OR DECREASES THE BRIGHTNESS OF ALL DIMMING ZONES.
- ALL OFF: TURNS OFF ALL LIGHTING LOADS.

VP OFFICE:

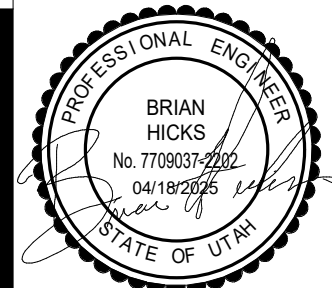
- LIGHTING FIXTURES IN THIS AREA ARE TO BE CONTROLLED BY WALL-MOUNTED OCCUPANCY SENSOR.

BOOK ROOM:

- OCCUPANCY: LIGHTS AUTOMATICALLY TURN ON TO DAYLIGHT LEVEL WHEN USE ENTERS, AND LIGHTS WILL AUTOMATICALLY TURN OFF 15 MINUTES AFTER VACATED.
- 3-WAY SWITCH

SENSOR GENERAL NOTES

1. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE SENSOR MANUFACTURER FOR PROPER INSTALLATION AND ADJUSTMENT OF OCCUPANCY SENSORS.
2. PROVIDE DUAL TECHNOLOGY OCCUPANCY SENSORS AS SHOWN. LOCATE OCCUPANCY SENSORS PER MANUFACTURER'S RECOMMENDATION AND WHERE REQUIRED THE ROOM FOR PROPER COVERAGE. PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY COVER THE RESPECTIVE ROOM.
3. EACH ZONE SHALL HAVE COVERAGE BY OCCUPANCY SENSOR SUCH THAT NO BLIND SPOT EXIST.
4. UPON COMPLETION OF THE INSTALLATION, THE SYSTEM SHALL BE COMPLETELY COMMISSIONED BY THE MANUFACTURER'S FACTORY AUTHORIZED TECHNICIAN WHO WILL VERIFY ALL ADJUSTMENTS AND SENSOR PERFORMANCE ASSURANCE THROUGH TESTING.
5. THE LOCATION AND QUANTITIES OF SENSORS SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC AND INDICATE ONLY THE ROOMS WHICH ARE TO BE PROVIDED WITH SENSORS. THE ELECTRICAL CONTRACTOR SHALL PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY COVER THE RESPECTIVE ROOM.
6. PROVIDE DAYLIGHT ZONE CONTROL REQUIREMENTS PER IECC-2021 C405.2.2.3. LOCATE DAYLIGHT SENSORS PER MANUFACTURER'S RECOMMENDATION AND WHERE REQUIRED THE ROOM FOR PROPER COVERAGE.
7. PROVIDE OCCUPANCY SENSOR WITH AN ADDITIONAL SET OF DRY CONTACTS FOR HVAC CONTROL AT EACH VAV BOX LOCATION. COORDINATE WITH MECHANICAL DRAWINGS AND THE MECHANICAL CONTRACTOR FOR EXACT LOCATION.



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E2.1

1. DIVISION 26 SHALL VISIT THE SITE PRIOR TO BIDDING. BIDS SHALL SERVE AS EVIDENCE OF KNOWLEDGE OF EXISTING CONDITIONS. BIDDERS SHALL EXAMINE THE SITE AND THE COMPLETE SET OF PLANS AND SPECIFICATIONS COVERING THE ENTIRE PROJECT. THEY SHALL BECOME FULLY CONVERSANT WITH THE TYPE OF GENERAL CONSTRUCTIONS AS WELL AS ALL PERTINENT FACTS AFFECTING THE COST OF CARRYING OUT THE WORK. THEY WILL CONTRACT TO PERFORM. DIVISION 26 SHALL COORDINATE PROJECT PHASING WITH THE GENERAL CONTRACTOR AND BID AND PERFORM RESPONSIBILITIES FOR THIS PROJECT TO CONTRACTOR EXPECTATIONS.
2. MAINTAIN AND PROTECT EXISTING UTILITY SERVICES AND ELECTRIFIED EQUIPMENT FOR EXISTING FACILITIES.
3. ANY ELECTRICAL, PUMP-OUT, EQUIPMENT AND CONDUIT PATHWAYS ARE DIAGRAMMATICALLY SHOWN ON THE EXISTING PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. BY THE CONTRACTOR. DIVISION 26 SHALL BLUE STAKE THE AREA OF NEW CONSTRUCTION PRIOR TO EXCAVATION FOR FOOTINGS. ETC. ANY IDENTIFIED BURIED ELECTRICAL SYSTEMS/UTILITIES, POWER, COMMUNICATIONS, ETC.) AND/OR EXISTING UTILITIES SHALL BE PROTECTED AND NOT DISTURBED. IF ANY UTILITIES ARE DISTURBED (POWER, AUXILIARY, ETC.) E.C. SHALL MAKE NECESSARY REPAIRS (AS APPROVED BY DISTRICT REPAIRS) AS PART OF THE PROJECT.
4. CONTRACTOR TO CLOSELY COORDINATE ALL NEW AND EXISTING DEVICE LOCATIONS WITH CIVIL DRAWINGS. CONTRACTOR TO VERIFY ALL FINAL GRADE REQUIREMENTS WITH CIVIL DRAWINGS.
5. CLOSELY COORDINATE ANY REQUIRED POWER SHUTDOWNS WITH THE GENERAL, HEAD CUSTODIAN, AND OWNER.
6. BORING, TRENCHING, ASPHALT CUTTING AND PATCHWORK BY DIVISION 26. ANY CONCRETE THAT NEEDS TO BE REMOVED TO COMPLETE WORK WILL BE THE RESPONSIBILITY OF DIVISION 26. SCHEDULING OF THE TRENCHING SHALL BE COORDINATED WITH OTHER TRADES AND APPROVED BY THE OWNER.
7. CABLE RINGS SHALL BE MARKED WITH RED PLASTIC MARKING TAPE INSTALLED IN THE TRENCH ONE FOOT BELOW SURFACE. BACKFILL SHALL BE FREE OF ROCKS AND OTHER OBJECTS WHICH MIGHT DAMAGE THE CABLE.
8. TRENCHING, ASPHALT CUTTING AND PATCHWORK BY DIVISION 26. ANY CONCRETE THAT NEEDS TO BE REMOVED TO COMPLETE WORK WILL BE THE RESPONSIBILITY OF DIVISION 26. SCHEDULING OF THE TRENCHING AND INSTALLATION OF CABLE SHALL BE COORDINATED WITH OTHER TRADES AND APPROVED BY THE OWNER.
9. INSPECT ALL CONDUITS WITH CAMERA TO CONFIRM THAT CONDUITS HAVE NOT BEEN CRUSHED OR BLOWN. CAP OVER ENDS OF CONDUITS AND INSTALL A 200 LB. NYLON FULL COIL IN EACH EMPTY CONDUIT RUN.
10. PROVIDE PLANS, PHOTO DOCUMENTATION AND GPS COORDINATES INDICATING THE LOCATION OF ANY AND ALL CONDUITS INTENDED FOR FUTURE USE BY OWNER. SUBMIT DOCUMENTATION WITH O&M.
11. CONTRACTOR TO PROVIDE PULL BOXES AS REQUIRED PER NEC AND NECESSARY TO PROVIDE SUCCESSFUL CABLE INSTALLATION.
12. PROVIDE TEMPORARY POWER FOR PROJECT AS REQUIRED BY GENERAL CONTRACTOR.
13. LABEL ALL ELECTRICAL GEAR WITH BOTH CONSTRUCTION DRAWING ROOM #S AND FINAL CONSUMER

D1	NO ANTICIPATED CONSTRUCTION IN THIS EXISTING GRAVITY PORTION OF THIS AREA, UNLESS OTHERWISE NOTED ON THE DRAWINGS. PROVIDE ADEQUATE PROTECTION FOR ALL EXISTING UTILITIES AND EXISTING FACILITIES AS REQUIRED; RELOCATE, REWIRE, AND/OR RECONNECT EXISTING ELECTRICAL DEVICES AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
D2	EXISTING ELECTRICAL PANEL #1 TO REMAIN AS IS. PROTECT EXISTING UNDERGROUND CONDUTES AND CABLE FEEDING THE PANEL FROM CONSTRUCTION ACTIVITIES UNLESS OTHERWISE NOTED. EXISTING PANELED BOARD IS A GE NALAB MODEL NO. GE 89600 PANELEDBOARD. PROVIDE NEW BREAKERS AS SHOWN ON EXISTING BIDDING DOCUMENTS. IF THE EXISTING PANELEDBOARD CAN BE USED, REFER TO PANEL SCHEDULE ON E12 DRAWING. PROVIDE NEW TYPE PANELEDBOARD INSTEAD.
D3	EXISTING AREAS TO BE DEMOLISHED AND REMODELED PER THE ARCHITECTURAL DRAWINGS. REMOVE ALL EXISTING LIGHT FIXTURES, ELECTRICAL DEVICES AND APPARATUS REQUIRED FOR DEMOLITION NOT IN EXISTENCE OF DEVICES AND APPARATUS TO BE MAINTAINED OR VERIFIED TO REMAIN IN EXISTENCE. REMOVE ALL CONDUIT, BOXES AND WIRE THAT ARE NOT BEING REUSED TO SOURCE. KEEP EXISTING ELECTRICAL DEVICES, WIRE, CIRCUIT INTERRUPTER, CONDUIT, ETC THAT ARE TO BE REUSED. RELOCATE OR ADD NEW WIRING TO NEW ELECTRICAL PANELS AND/OR NEW DEVICES AS SHOWN. SEE ENLARGED PLANS FOR ELECTRICAL DEMO AND NEW ELECTRICAL LAYOUT.
D16	EXISTING DATA RACK TO REMAIN. PROVIDE NEW DATA DROPS FROM THIS RACK AS NOTED.

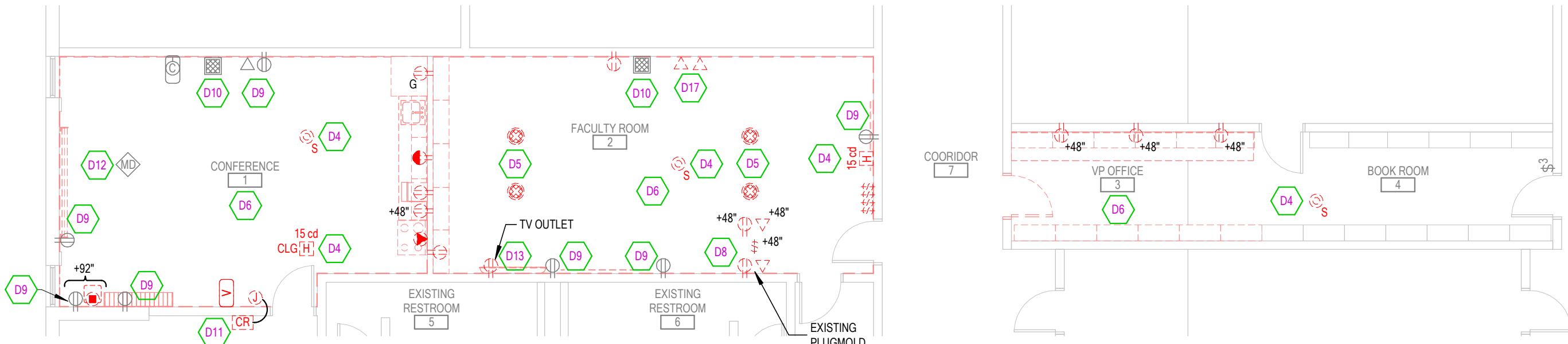


DEMOLITION GENERAL NOTES

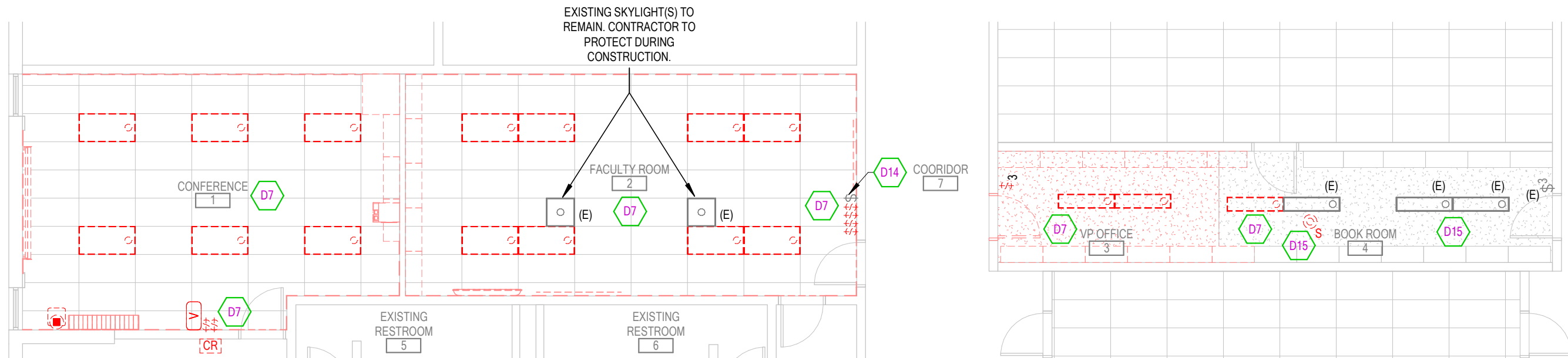
1. DURING DEMOLITION AND NEW CONSTRUCTION, THE CONTINUATION OF BUILDING SYSTEMS MAY BE NECESSARY. TRACE AND IDENTIFY EXISTING ELECTRICAL SYSTEM (POWER, LIGHTING, FIRE ALARM AND SECURITY) WIRING IN AREAS PRIOR TO DEMOLITION. ELECTRICAL CONTRACTOR SHALL DISCONNECT ALL NECESSARY EQUIPMENT TO MAKE IT SAFE FOR DEMOLITION. WHERE LIVE CIRCUITS OR FEEDERS PASS THROUGH A REMODEL AREA, CONTRACTOR SHALL MAINTAIN ELECTRICAL CONTINUITY TO AND PROTECT BRANCH CIRCUITS AND/OR FEEDERS PASSING THROUGH. WHERE FEEDERS AND/OR BRANCH CIRCUITS FEED BOTH LOADS IN A REMODELLED AREA AND OUTSIDE OF A REMODELLED AREA, CONTRACTOR SHALL DISCONNECT AND REMOVE PORTIONS OF THE ELECTRICAL BRANCH CIRCUITS AND/OR FEEDERS WITHIN THE REMODELLED AREA AND REWORK BRANCH CIRCUITS AND/OR FEEDERS TO MAINTAIN ELECTRICAL CONTINUITY TO LOADS OUTSIDE OF THE REMODELLED AREA.
2. DEVICES AND EQUIPMENT TO BE DEMOLISHED SHALL BE REMOVED, INCLUDING ALL RELATED CONDUCTORS, RACEWAY, JUNCTION AND SPLICE BOXES UP TO THE PANELBOARD/SWITCHBOARD. ALL CONDUITS AND BOXES THAT ARE SURFACE MOUNTED AND NO LONGER REQUIRE ACTIVE CIRCUITS SHALL BE COMPLETELY REMOVED. DEVICES TO BE REMOVED ON DRY WALL OR PLASTER TYPE WALLS THAT ARE TO REMAIN SHALL HAVE THE WALL SURFACE PATCHED TO MATCH THE EXISTING FINISH. THE CONTRACTOR SHALL IDENTIFY ALL DEMOLISHED AND ABANDONED BRANCH CIRCUITS. THESE SHALL BE NOTED AS SPARE ON PANELBOARD SCHEDULES. THIS INCLUDES IDENTIFYING EXISTING ABANDONED AND SPARE CIRCUITS THAT ARE CURRENTLY IDENTIFIED AS USED. THE CONTRACTOR SHALL FURNISH NEW TYPED DIRECTORIES FOR ALL PANELBOARDS.
3. THE OWNER HAS THE RIGHT TO RETAIN ALL SALVAGEABLE MATERIAL. ANY MATERIAL THE OWNER CHOOSES NOT TO ACCEPT SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.
4. FULLY COORDINATE MECHANICAL EQUIPMENT ELECTRICAL CONNECTION REMOVAL AND RELOCATION WITH THE MECHANICAL CONTRACTOR.
5. REFER TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING DEMOLITION DRAWINGS FOR ADDITIONAL DEMOLITION INFORMATION.
6. WHERE DEVICES OR EQUIPMENT IS TO BE RELOCATED, CONTRACTOR SHALL EXTEND EXISTING CIRCUITING TO NEW LOCATION. ENSURE CIRCUIT CONTINUITY FOR OTHER DEVICES OR EQUIPMENT ON THE SAME BRANCH CIRCUIT.
7. WHERE FLOORS ARE BEING REMOVED AND/OR REPLACED, CONTRACTOR SHALL PROTECT ELECTRICAL FEEDERS AND BRANCH CIRCUITS WHICH ARE EITHER TO REMAIN PERMANENTLY OR UNTIL DEMOLITION IN FUTURE PHASING WHILE STRUCTURAL WORK IS PERFORMED. PROVIDE ALL NECESSARY LABOR AND MATERIALS TO PERFORM WORK AS COORDINATED WITH THE CONSTRUCTION MANAGER.
8. RELOCATE, REWIRE AND/OR RECONNECT EXISTING ELECTRICAL DEVICES AND/OR EQUIPMENT THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION.
9. DIVISION 26 CONTRACTOR SHALL TEMPORARY REMOVE, DISCONNECT, AND/OR PROTECT ALL EXISTING ELECTRICAL FIXTURES, DEVICES, AND CABLING IMPACTED BY THE SEISMO-UPGRADE. ELECTRICAL SYSTEMS ABOVE THE CEILING MUST BE SAFEGUARDED IN PLACE TO PREVENT DAMAGE. UPON COMPLETION OF THE SEISMO WORK, CONTRACTOR SHALL REINSTALL, RELOCATE, AND/OR REWORK THE ELECTRICAL SYSTEMS AS NECESSARY.
10. EXISTING CIRCUIT PER RECORD DRAWINGS AND FOR REFERENCE ONLY.

SHEET KEYNOTES

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| D4 | DISCONNECT AND REMOVE EXISTING FIRE ALARM DEVICE(S). VERIFY AND MAINTAIN CIRCUIT INTEGRITY FOR USE WITH NEW FIRE ALARM DEVICE(S). PROPERLY DISPOSE FIRE ALARM DEVICE(S). |
| D5 | DISCONNECT AND REMOVE INTERCOM LOUDSPEAKER(S) AS SHOWN. VERIFY AND MAINTAIN CIRCUIT INTEGRITY FOR USE WITH NEW INTERCOM LOUDSPEAKER DEVICES(S). PROPERLY DISPOSE THESE DEVICE(S). |
| D6 | DISCONNECT AND REMOVE EXISTING RECEPTACLES AND/OR DATA DEVICE(S). VERIFY EXISTING CIRCUIT INTEGRITY FOR USE WITH NEW DEVICE(S). PROPERLY DISPOSE RECEPTACLE AND DATA DEVICES. |
| D7 | DISCONNECT AND REMOVE EXISTING LIGHTING DEVICE(S) AND CONTROL DEVICE(S) AS SHOWN, UNLESS OTHERWISE NOTED. VERIFY AND MAINTAIN CIRCUIT INTEGRITY FOR USE WITH NEW LIGHTING AND CONTROL DEVICE(S). PROPERLY DISPOSE THESE DEVICES. |
| D8 | DISCONNECT AND REMOVE EXISTING PLUGMOLD AND RETURN TO THE OWNER. REMOVE CONDUCTORS BACK TO SOURCE PANEL. IDENTIFY BREAKERS FREED VIA DEMOLITION IN PANELBOARD. IF AND RE-USE FOR NEW CIRCUITS IF NEEDED DURING RENOVATION. |
| D9 | PROTECT EXISTING ELECTRICAL DEVICE IN PLACE AS REQUIRED DURING DEMOLITION. REMOVE EXISTING COVER PLATE, SAFELY STORE THEM AND CLEAN THEM DURING DEMOLITION. REINSTALL COVER PLATE UPON COMPLETION OF WORK AND EXTEND OUTLET AS NEEDED TO WALL SURFACE DURING RENOVATION. EXTEND WIRING(S) AND CONDUIT(S) IF REQUIRED. |
| D10 | PROTECT EXISTING ELECTRICAL INTERCOM LOUDSPEAKER FOR EXISTING FACILITIES AS REQUIRED. RELOCATE / SAFELY STORE, CLEAN, REWIRE, AND/OR RECONNECT EXISTING ELECTRICAL INTERCOM LOUDSPEAKER THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION. EXTEND WIRING(S) AND CONDUIT(S) IF REQUIRED. |
| D11 | PROTECT EXISTING ELECTRICAL JUNCTION BOX, SURFACE RACEWAY, CARD READER DEVICES IN PLACE AS REQUIRED DURING DEMOLITION. REMOVE THEM SAFELY AND STORE THEM DURING DEMOLITION. REINSTALL JUNCTION BOX, SURFACE RACEWAY, CARD READER DEVICES UPON COMPLETION OF WORK. EXTEND SURFACE RACEWAY WIRING(S) AND CONDUIT(S) IF REQUIRED. |
| D12 | PROTECT EXISTING ELECTRICAL MOTION DETECTION DEVICE IN PLACE AS REQUIRED DURING DEMOLITION. REMOVE SAFELY AND STORE THIS DEVICE DURING DEMOLITION. REINSTALL THIS DEVICE UPON COMPLETION OF WORK. EXTEND WIRING(S) AND CONDUIT(S) IF REQUIRED. |
| D13 | ELECTRICAL CONTRACTOR TO REMOVE, SAFELY STORE, AND REINSTALL EXISTING DISPLAY MOUNT AT NEW DISPLAY LOCATION IN THE CONFERENCE ROOM. SEE RENOVATION PLANS FOR NEW LOCATION. |
| D14 | PROTECT EXISTING ELECTRICAL MOTORIZED SHADES SWITCH FOR EXISTING FACILITIES AS REQUIRED. RELOCATE / SAFELY STORE, REWIRE, AND/OR RECONNECT EXISTING ELECTRICAL MOTORIZED SHADES SWITCH THAT FOR ANY REASON OBSTRUCTS CONSTRUCTION. EXTEND WIRING(S) AND CONDUIT(S) IF REQUIRED. |
| D15 | EXISTING ELECTRICAL LIGHT FIXTURE(S) TO REMAIN AND PROTECTED DURING CONSTRUCTION, UNLESS OTHERWISE NOTED. |
| D17 | RE-PULL CABLING BACK TO ABOVE CEILING, COIL ABOVE CEILING FOR USE IN A NEW WIRELESS ACCESS POINT. |



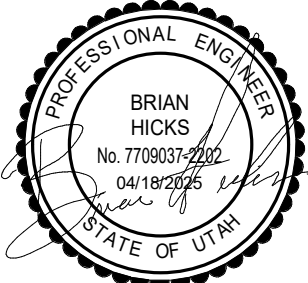
1 DEMOLITION FLOOR PLAN
SCALE = 1/8" = 1'-0"



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



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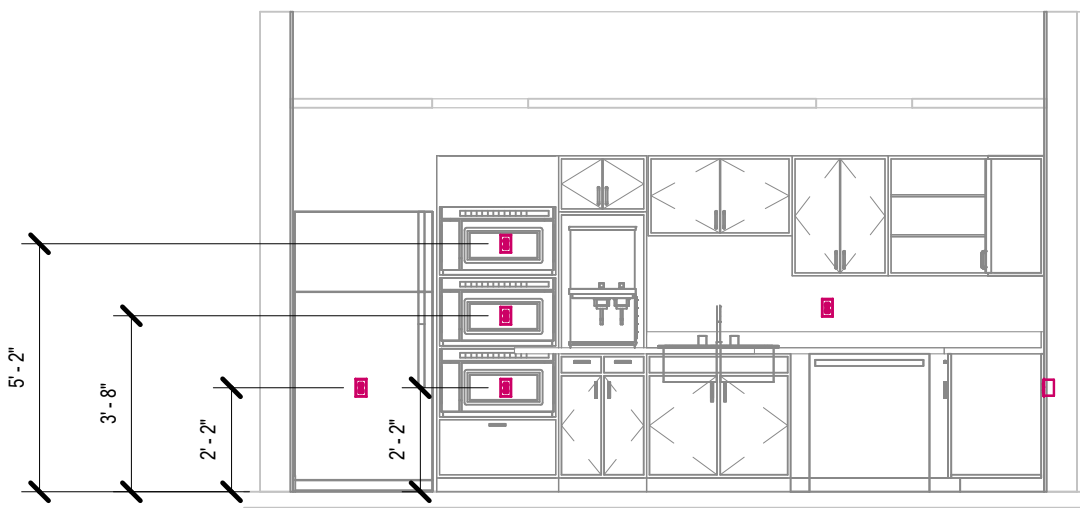
PROJECT TITLE
ALTARA ELEMENTARY REMODEL
800 E 11000 S BASECAMP 1

DRAWN BY: BIM LEAD
CHECKED BY: ENGINEER
DATE: FEB 2025
PROJECT #: 175125

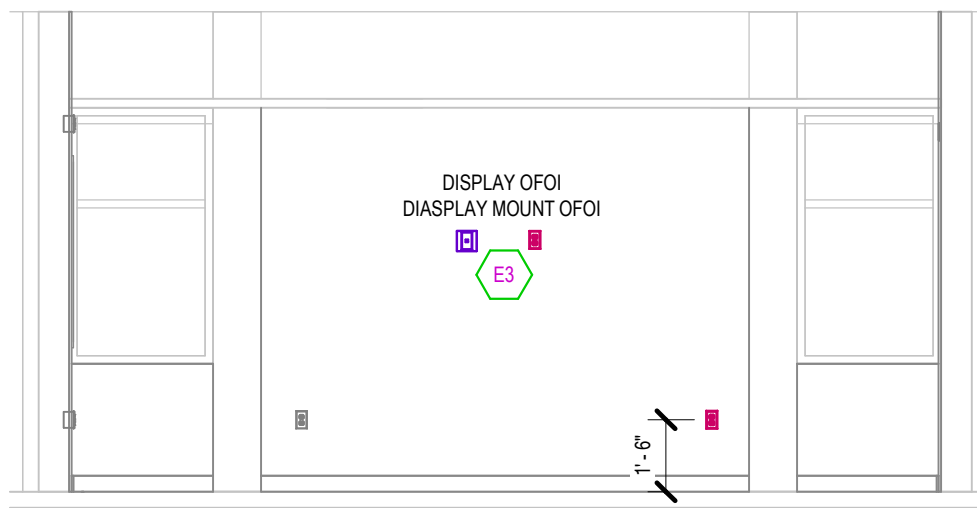
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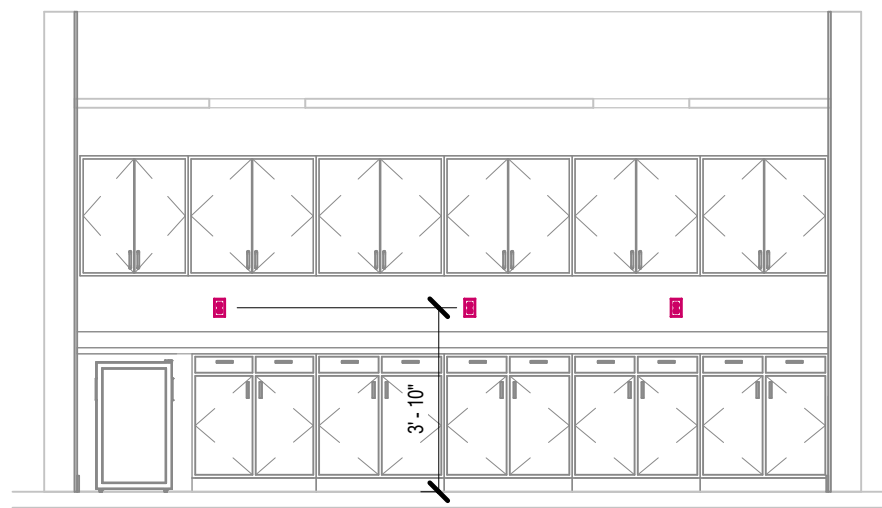
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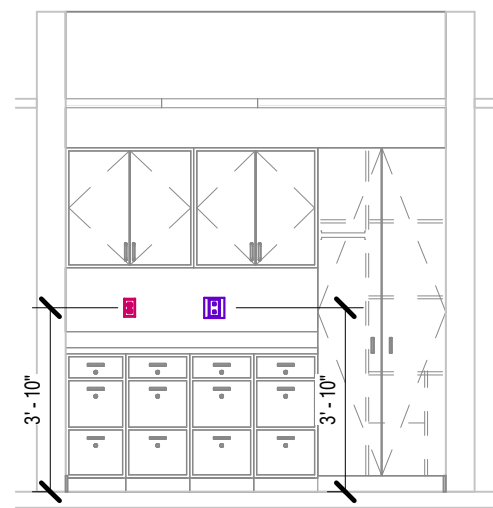
3 ELEVATION VIEW 1
SCALE = 1/4" = 1'-0"



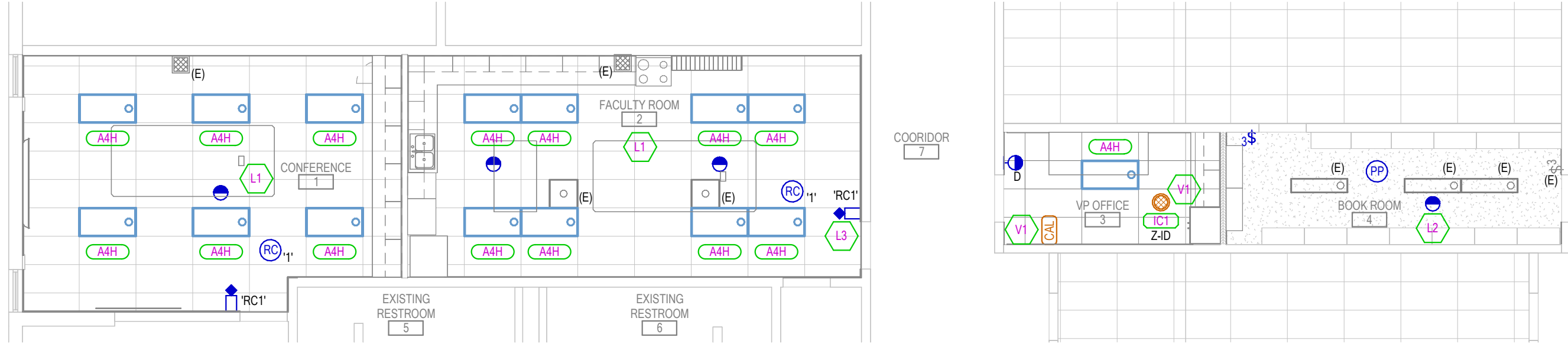
4 ELEVATION VIEW 2
SCALE = 1/4" = 1'-0"



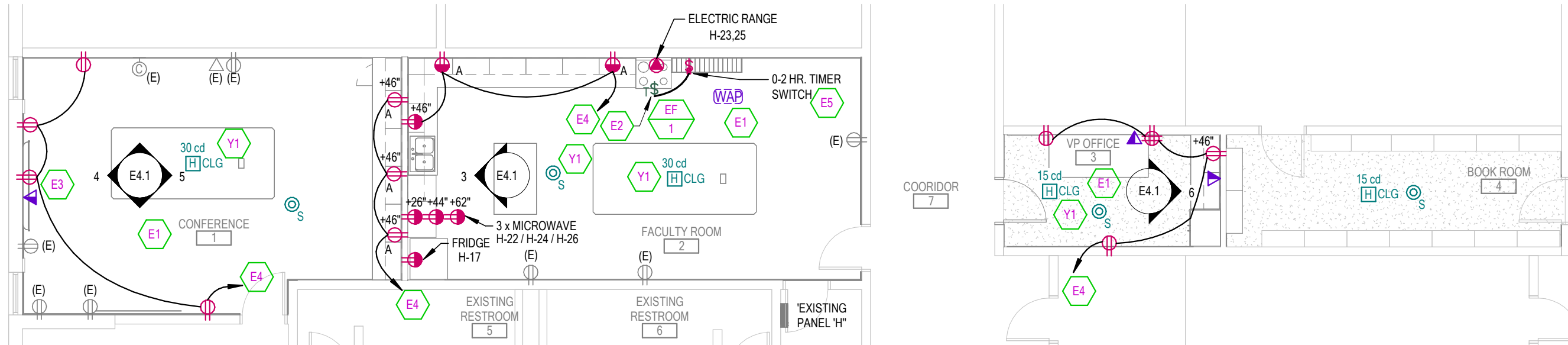
5 ELEVATION VIEW 3
SCALE = 1/4" = 1'-0"



6 ELEVATION VIEW 4
SCALE = 1/4" = 1'-0"



1 RENOVATION LIGHTING PLAN
SCALE = 1/8" = 1'-0"



2 RENOVATION ELECTRICAL PLAN
SCALE = 1/8" = 1'-0"

POWER GENERAL SHEET NOTES

- COORDINATE PLACEMENT OF ELECTRICAL DEVICES WITH ARCHITECT PRIOR TO ROUGH-IN. WHERE DEVICES ARE SHOWN IN SAME WALL SPACE, ALIGN VERTICALLY AND HORIZONTALLY. COORDINATE WITH ARCHITECTURAL DRAWINGS, FLOORING AND CABINETRY DRAWINGS.
- ALL LOW VOLTAGE WIRE/CABLE FOR LIGHTING SENSORS, AUDIOVISUAL EQUIPMENT, SOUND AMPLIFICATION, ETC. TO BE ROUTED THROUGH CONDUIT IN EXPOSED AND CLOUDED CEILING AREAS.
- ALL LOW VOLTAGE WIRE/CABLE FOR LIGHTING SENSORS, AUDIOVISUAL EQUIPMENT, CLASSROOM SOUND AMPLIFICATION, ETC. TO BE PROPERLY SUPPORTED PER THE TELE/DATA SPEC. AND AT 5'-0" INTERVALS AND TO FOLLOW BUILDING STRUCTURAL LINES. PULLING WIRE DIAGONALLY ACROSS ROOMS IS NOT ALLOWED. USING CEILING SYSTEM OR LIGHT FIXTURE SUPPORT/SEISMIC WIRES FOR SUPPORT IS NOT ALLOWED.
- ALL RECEPTACLES LOCATED THROUGHOUT THE BUILDING SHALL BE TAMPER RESISTANT PER NEC 406.12.
- ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF ALL MECHANICAL UNITS WITH MECHANICAL CONTRACTOR. CIRCUITS TO ALL MECHANICAL EQUIPMENT SHALL BE DEDICATED UNLESS NOTED OTHERWISE.
- ALL ELECTRICAL DEVICES IN THIS AREA ARE TO BE RE-FREED FROM CIRCUIT PREVIOUSLY FEEDING THAT AREA, UNLESS OTHERWISE NOTED. THE CIRCUIT NUMBERS SHOWN IN THIS PLAN ARE FROM BEST KNOWN RECORD DRAWING AND SHOWN FOR REFERENCE PURPOSE ONLY. THE CONTRACTOR TO FIELD VERIFY CIRCUITRY PRIOR TO COMMENCING NEW WORK.
- PROVIDE 120V CIRCUIT FROM NEAREST PROVIDED CIRCUIT FOR FIRE/SMOKE DAMPER RELAYS. PROVIDE FIRE ALARM MODULES AND RELAYS AS NECESSARY FOR ALL FIRE/SMOKE DAMPERS SHOWN ON DIVISION 23 DRAWINGS. ALL FIRE/SMOKE DAMPERS SHALL HAVE A MANUAL OVERRIDE SWITCH. PROVIDE DUCT DETECTOR WITHIN 5 FEET OF EACH FIRE/SMOKE DAMPER.

LIGHTING GENERAL SHEET NOTES

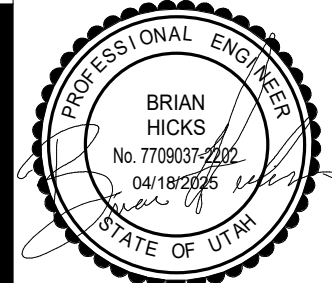
- DEVICE HEIGHTS SHOWN FOR REFERENCE ONLY. CONTRACTOR TO VERIFY ALL ROUGH-IN ELEVATION HEIGHTS WITH MILLWORK SHOP DRAWINGS PRIOR TO ROUGH-IN. ROUGH-IN DEVICES 6" ABOVE DESKTOPS, COUNTERTOPS, ETC.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR ALL FIXTURE LOCATIONS WITHIN A CEILING OR CEILING GRID. FOR AREAS WITHOUT CEILINGS, FIXTURE LOCATIONS ARE DIAGRAMMATIC. THE INTENT IS TO ALIGN CENTER, OR SPACE FIXTURES BETWEEN ARCHITECTURAL AND STRUCTURAL ELEMENTS. CONTRACTOR TO PAINT EXPOSED RACEWAY TO MATCH ADJACENT SURFACES.
- FIELD VERIFY EXACT FIXTURE LENGTHS FOR CONTINUOUS ILLUMINATION FOR COVES AND LINEAR RUNS. PROVIDE CONTINUOUS ILLUMINATION WITH NO MORE THAN A 1" GAP BETWEEN THE END OF THE EDGE OF THE WALL / CEILING AND THE FIXTURE.
- ELECTRICAL CONTRACTOR TO COORDINATE WITH MECHANICAL CONTRACTOR FOR PLACEMENT OF FIXTURES WITHIN MECHANICAL ROOMS.
- ALL ROOM CONTROLLERS AND/OR POWER PACKS SHALL BE INSTALLED IN THE CEILING SPACE DIRECTLY ABOVE THE ENTRY DOOR TO THE SPACE IT IS CONTROLLING. PROVIDE INDICATOR LABELING ON GRID TILE NEAREST THE ROOM CONTROLLER. COORDINATE WITH ARCHITECT FOR STYLE AND METHOD LABELING.
- SEE CORRESPONDING LIGHTING DIAGRAMS FOR GENERAL INSTALLATION REQUIREMENTS, CONNECTIONS, AND CABLE TYPES.
- PROVIDE UNSWITCHED NORMAL CIRCUIT HOT LEG TO ALL EMERGENCY POWER CONTROL DEVICES FOR PROPER POWER SENSING.
- PROVIDE UNSWITCHED HOT AHEAD OF RELAY, OCCUPANCY SENSOR, OR SWITCH TO ALL EXIT SIGNS.
- IF SHOWN, SUBSCRIPT NEAR LIGHT FIXTURES INDICATES CONTROL INTENT. PROVIDE LIGHTING CONTROLLERS WITH THE REQUIRED NUMBER OF RELAYS/DIMMERS PROVIDE ADDITIONAL RELAYS/DIMMERS FOR DAYLIGHT ZONES AS NEEDED.
- PROVIDE 0-10V DIMMING FOR ALL AREAS AND/OR ROOMS WHERE 0-10V DIMMING IS INDICATED BY THE WALL STATION CONTROL SEQUENCE AND OR BY TYPE OF CONTROL INTERFACE SHOWN.
- ALL LIGHTING CIRCUITS TERMINATING AT LIGHTING CONTROL PANELS SHALL HAVE A MINIMUM LENGTH OF 20 FEET BETWEEN LIGHTING CONTROL PANEL AND BRANCH LIGHTING PANEL.
- CAREFULLY COORDINATE FIXTURE PLACEMENT WITHIN BAFFLED CEILINGS. PENDANT MOUNTING FIXTURE SHALL BE MOUNTED AT THE SAME ELEVATION AS BAFFLES. COORDINATE WITH ARCHITECTURAL RCP AND DETAILS PRIOR TO ROUGH-IN.
- PROVIDE CONDUIT FROM DEVICE TO DEVICE IN OPEN AND/OR EXPOSED CEILINGS. CEILINGS WITH CLOUDS ARE CONSIDERED OPEN/EXPOSED CEILING. NO EXPOSED CABLES SHALL BE SEEN FROM BELOW.
- ALL UNDERCABINET LIGHTS MUST BE COORDINATED WITH MILLWORK FOR EXACT LENGTHS. COORDINATE WITH MILLWORK SHOP DRAWINGS.
- PROVIDE 0-10V DIMMER CONDUCTORS FOR ALL AREAS AND/OR ROOMS WHERE 0-10V DIMMING IS INDICATED BY THE RELAY PANEL SCHEDULE. WALL STATION CONTROL SEQUENCE, OR REQUIRED BY IECC 2021.
- SUBSCRIPT ADJACENT TO LIGHT FIXTURE INDICATES INTENDED CONTROL GROUPING. PROVIDE LIGHTING CONTROLS WITH THE REQUIRED NUMBER OF RELAYS/DIMMERS. PROVIDE ADDITIONAL RELAYS/DIMMERS FOR DAYLIGHT ZONES AS REQUIRED.
- MANUFACTURER'S REPRESENTATIVE FOR DIVISION 26 LIGHTING CONTROLS SHALL BE ACCOUNTABLE FOR THE COMPREHENSIVE LIGHTING CONTROL SYSTEMS FINALIZATION IN ALIGNMENT WITH THE DESIGN INTENT DEPICTED IN THE DRAWINGS AND SPECIFICATIONS AND COMPLYING WITH IECC 2021 REQUIREMENTS. THE LIGHTING REPRESENTATIVE IS REQUIRED TO DEVELOP DETAILED SHOP DRAWINGS DEMONSTRATING THE LIGHTING CONTROL SYSTEMS TOPOLOGY AND THE ESSENTIAL CONNECTIONS NECESSARY FOR ITS PROPER FUNCTIONING. LIGHTING CONTROL DEVICES SHOWN ARE TO PROVIDE GENERAL INTENT ONLY. MANUFACTURER'S REPRESENTATIVE TO PROVIDE ALL ADDITIONAL DEVICES AND MODIFY DEVICE LOCATIONS AS REQUIRED TO MEET IECC 2021 REQUIREMENTS.

SHEET KEYNOTES

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|----|---|
| E1 | PROVIDE NEW POWER OUTLETS AND DATA DROPS(S) AS SHOWN. CONNECT TO EXISTING CIRCUIT FREED DURING DEMOLITION. EXTEND EXISTING CIRCUIT(S), WIRING(S), AND CONDUIT(S) AS REQUIRED. RE-WIRE AND RE-WORK AS REQUIRED. UNLESS OTHERWISE NOTED. |
| E2 | PROVIDE POWER CONNECTION TO NEW EXHAUST FAN UNIT AS SHOWN. PROVIDE AND EXTEND NEW CONDUITS AND WIRES FROM EXISTING PANEL Y1. CIRCUIT AS SHOWN. EXISTING PANELBOARD IS A GE NLAB PANELBOARD. PROVIDE NEW BREAKERS AS NEEDED. EXISTING BREAKERS FREED DURING DEMOLITION MAY BE RE-USED. PROVIDE NEW TYPED PANELBOARD INDEX. |
| E3 | PROVIDE NEW POWER OUTLET AND DATA DROP FOR TV DISPLAY AND MOUNT THEM AT TV DISPLAY HEIGHT. ELECTRICAL CONTRACTOR TO RE-INSTALL DISPLAY MOUNT REMOVED DURING CONSTRUCTION FROM KEYNOTE D13. REFER TO ARCHITECTURAL DRAWINGS FOR NEW TV DISPLAY LOCATION PRIOR TO COMMENCING THE WORK. |
| E4 | CONTRACTOR TO UTILIZE AN EXISTING CIRCUIT BREAKER FREED DURING DEMOLITION. |
| E5 | REUSE DATA PULLED BACK TO ABOVE CEILING. REFER TO DEMOLITION PLAN FOR MORE INFORMATION. |
| L1 | PROVIDE NEW LIGHT FIXTURES AND CONTROLS AS SHOWN TO THIS AREA. TIE AND CONNECT NEW LIGHT FIXTURES AND CONTROLS TO CIRCUIT PREVIOUSLY FEEDING THIS AREA. PROVIDE AND EXTEND WIRING(S) AND CONDUIT(S) AS REQUIRED. |
| L2 | EXISTING LIGHT FIXTURES TO REMAIN. PROVIDE NEW LIGHTING CONTROLS AS SHOWN IN THIS SPACE/AREA AND RE-WORK AS REQUIRED. PROVIDE AND EXTEND WIRING(S) AND CONDUIT(S) AS REQUIRED. |
| L3 | REUSE EXISTING SWITCH LOCATION. CONTRACTOR TO PROVIDE 4 GANG COVER PLATE AND BLANK THE (3) UNUSED GANGS. |
| V1 | PROVIDE NEW INTERCOM CLASSROOM MODULE, LOUDSPEAKER(S), AND CALL SWITCH. CONNECT TO SCHOOL INTERCOM NETWORK AS REQUIRED. |
| Y1 | PROVIDE NEW FIRE ALARM DEVICE TO THIS AREA, AS SHOWN. EXTEND EXISTING CIRCUIT(S), WIRING(S), CONDUIT(S), AND REWORK AS REQUIRED. TIE INTO THE EXISTING FIRE ALARM INITIATION AND NOTIFICATION LOOP. |



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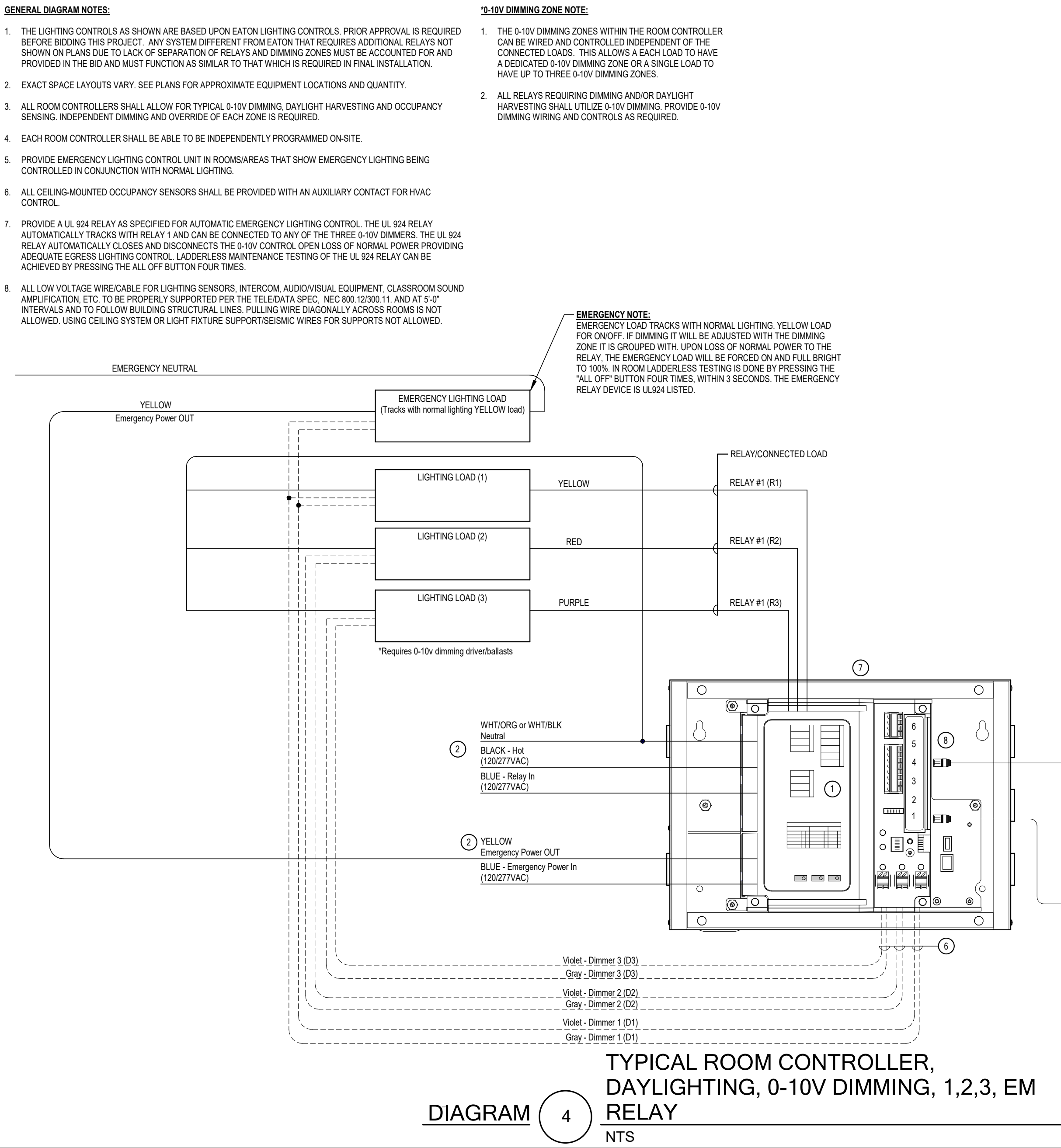
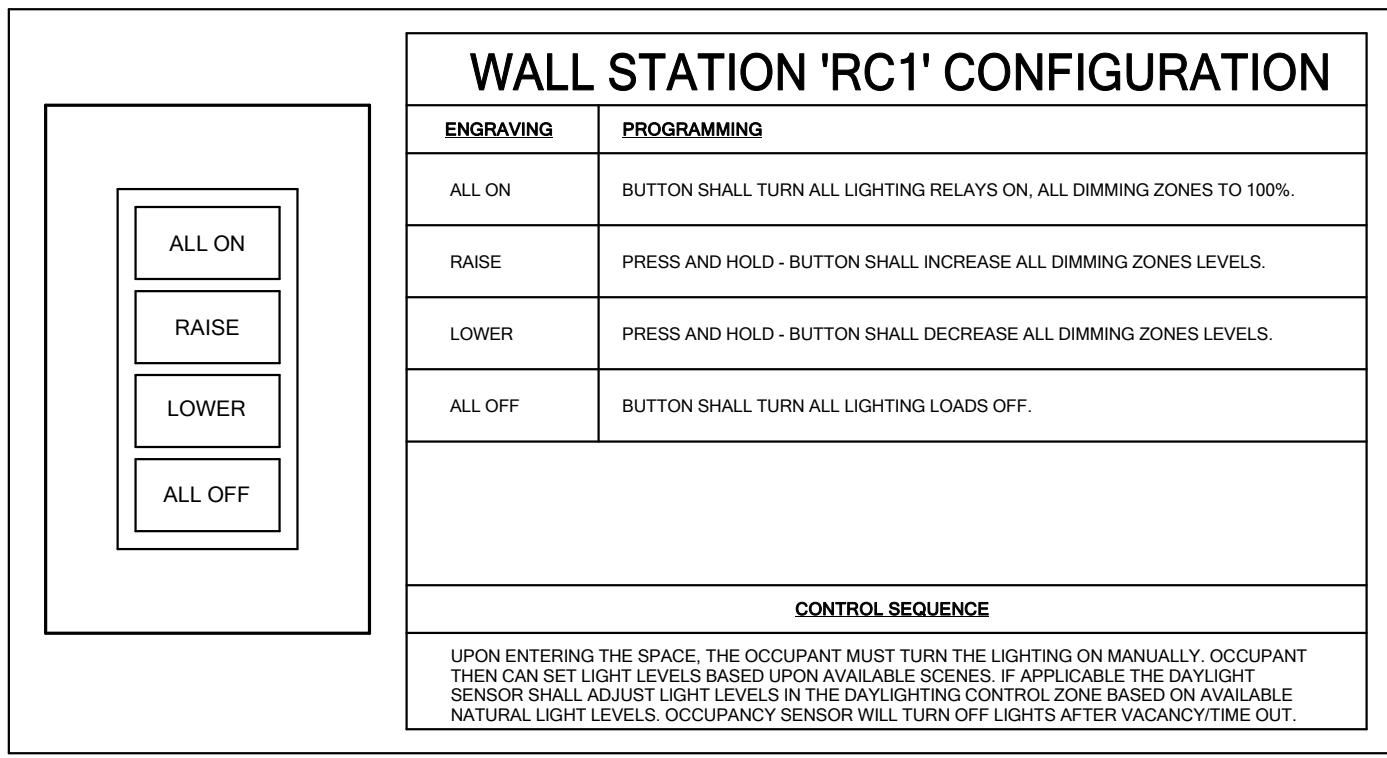
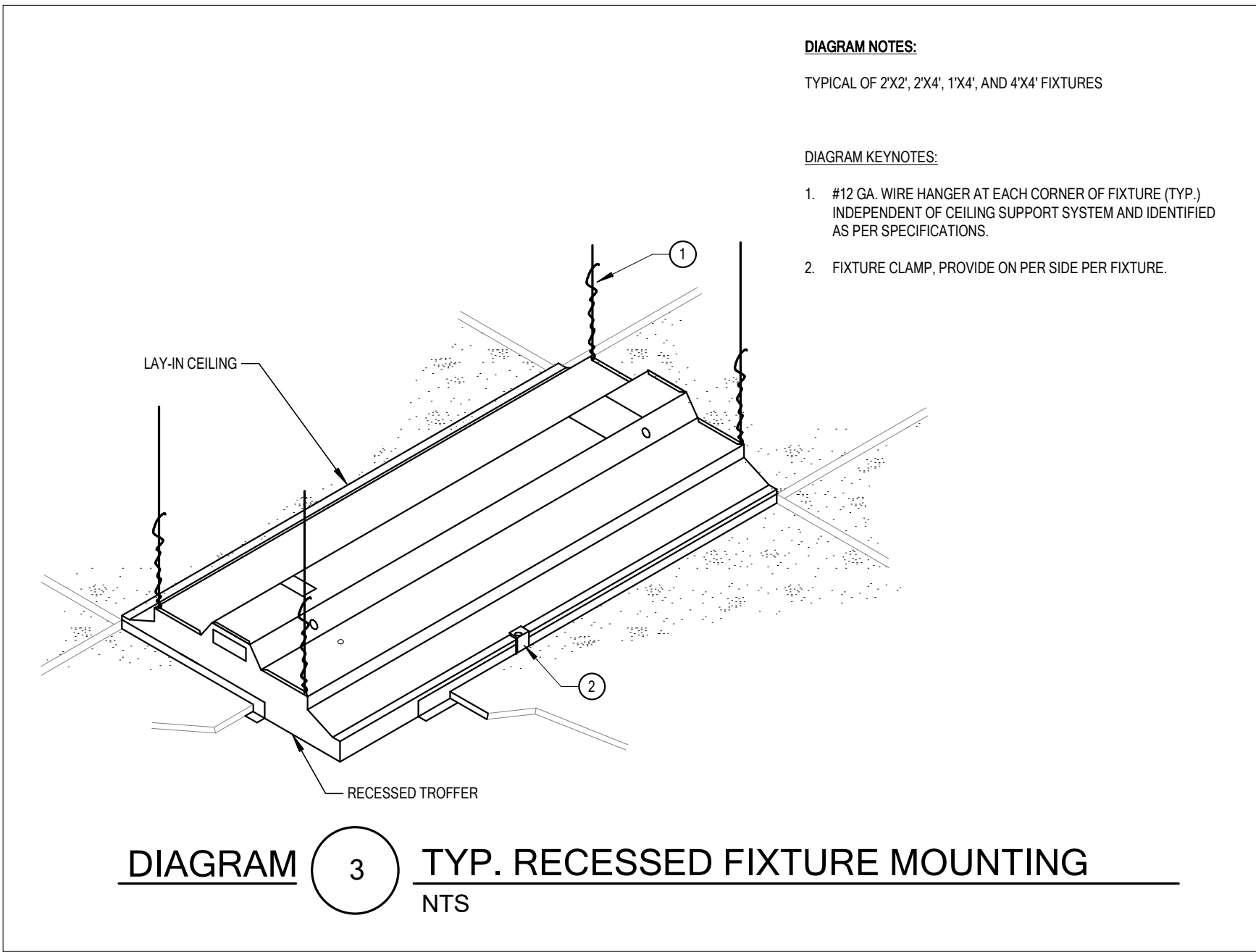
REVISIONS:

CANYON SCHOOL DISTRICT
SANDY, UT

PROJECT TITLE
ALTARA ELEMENTARY REMODEL
800 E 11000 S BASECAMP 1

DRAWN BY: BIM LEAD
CHECKED BY: ENGINEER
DATE: FEB 2025
PROJECT #: 175125

E4.1



- DIAGRAM KEY/NOTES:**
- EXACT ROOM CONTROLLER MODEL WILL VARY. PROVIDE THE CORRECT ROOM CONTROLLER MODEL BASED UPON WHAT IS SHOWN ON PLANS AND WHAT IS REQUIRED FOR PROPER LIGHTING CONTROL, SEQUENCING.
 - SEE LIGHTING PLANS FOR BRANCH CIRCUIT REQUIREMENTS.
 - PROVIDE DAYLIGHT ZONE CONTROL REQUIREMENTS PER ICC-2018 CHS 2.2.3. LOCATE DAYLIGHT SENSORS PER MANUFACTURER'S RECOMMENDATION AND WHERE REQUIRED WITHIN THE ROOM FOR PROPER COVERAGE. PROVIDE ADDITIONAL DIMMING ZONES/RELAYS AND WIRING TO CONTROL THE DAYLIGHTING ZONE SEPARATE FROM THE FIXTURES OUTSIDE THE DAYLIGHT ZONE.
 - PROVIDE DUAL TECH. OCCUPANCY SENSORS AS SHOWN. LOCATE OCCUPANCY SENSORS PER MANUFACTURER FOR PROPER PLACEMENT AND ADJUSTMENT OF OCCUPANCY SENSORS. PROVIDE ADDITIONAL SENSORS IF REQUIRED TO PROPERLY COVER THE RESPECTIVE ROOM.
 - PROVIDE LOW VOLTAGE WALLSTATION AS SEE DIAGRAM FOR WALLSTATION LAYOUT AND CONFIGURATION.
 - IF INDICATED, SEE DRAWINGS FOR DIMMING ZONES REQUIRED e.g. "D1", "D2", "D3".
 - MOUNT ROOM CONTROLLERS ABOVE ENTRY DOOR ALONG WITH ANY OTHER RELATED DEVICES. PROVIDE INDICATOR LABELING ON CEILING TILE NEAREST THE ROOM CONTROLLER. COORDINATE WITH ARCHITECT FOR STYLE AND METHOD OF LABELING.
 - INTERIOR CLASSROOMS AND WHERE LOCATED ON ARCHITECTURAL PLANS, PROVIDE CONNECTION BETWEEN ADJUSTABLE SKYLIGHTS AND ROOM CONTROLLERS ONBOARD CONNECTION FOR OPERATION OF ADJUSTABLE SKYLIGHT MOTORS. THE ADJUSTABLE SKYLIGHT WILL AUTOMATICALLY OPEN AND CLOSE BASED ON SIGNALS RECEIVED FROM THE ROOM CONTROLLER. SKYLIGHTS SHALL BE INTERFACED WITH DIMMING. LOWER SHALL AUTOMATICALLY BE CONTROLLED BASED ON THE LIGHTING WALLSTATIONS AND LIGHT SENSORS USED IN THE ROOM.
 - PROVIDE OCCUPANCY SENSOR WITH AN ADDITIONAL SET OF DRY CONTACTS FOR HVAC CONTROL AT EACH HVAC BOX LOCATION. COORDINATE WITH MECHANICAL DRAWINGS AND THE MECHANICAL CONTRACTOR FOR EXACT LOCATIONS.

